



December 6, 2005

State of Utah
Division of Oil, Gas & Mining
Attn: Diana Whitney
1594 West North Temple - Suite 1210
P.O. Box 145801
Salt Lake City, Utah 84114-5801

RE: Applications for Permit to Drill: 5-18-9-16, 6-18-9-16, 12-18-9-16, 13-18-9-16, 14-18-9-16, 15-18-9-16, 1-23-9-16, 2-23-9-16, and 4-24-9-16.

Dear Diana:

Enclosed find APD's on the above referenced wells. The proposed 13-18-9-16, 14-18-9-16 and 15-18-9-16 are Exception Locations. Our Land Department will send you the required Exception Location Letter. If you have any questions, feel free to give either Shon Mckinnon or myself a call.

Sincerely,

Mandie Crozier
Regulatory Specialist

mc
enclosures

RECEIVED
DEC 08 2005
DIV. OF OIL, GAS & MINING

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED
OMB No. 1004-0136
Expires January 31, 2004

5. Lease Serial No.
UTU-15855

6. If Indian, Allottee or Tribe Name
N/A

7. If Unit or CA Agreement, Name and No.
N/A

8. Lease Name and Well No.
Federal 2-23-9-16

9. API Well No.
43-013-33003

10. Field and Pool, or Exploratory
Monument Butte

11. Sec., T., R., M., or Blk. and Survey or Area
NW/NE Sec. 23, T9S R16E

12. County or Parish
Duchesne

13. State
UT

1a. Type of Work: ☒ DRILL ☐ REENTER

1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone

2. Name of Operator
Newfield Production Company

3a. Address
Route #3 Box 3630, Myton UT 84052

3b. Phone No. (include area code)
(435) 646-3721

4. Location of Well (Report location clearly and in accordance with any State requirements.)*
At surface NW/NE 760' FNL 2032' FEL 578189X 40.021569
At proposed prod. zone 4430343 y -110.083749

14. Distance in miles and direction from nearest town or post office*
Approximatley 18.5 miles southwest of Myton, Utah

15. Distance from proposed*
location to nearest
property or lease line, ft.
(Also to nearest drig. unit line, if any) Approx. 760' f/lse, NA' f/unit

16. No. of Acres in lease
1200.00

17. Spacing Unit dedicated to this well
40 Acres

18. Distance from proposed location*
to nearest well, drilling, completed,
applied for, on this lease, ft. Approx. 1688'

19. Proposed Depth
5730'

20. BLM/BIA Bond No. on file
UT0056

21. Elevations (Show whether DF, KDB, RT, GL, etc.)
5678' GL

22. Approximate date work will start*
1st Quarter 2006

23. Estimated duration
Approximately seven (7) days from spud to rig release.

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).

4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature
Mandie Crozier
Title
Regulatory Specialist

Name (Printed/Typed)
Mandie Crozier

Date
12/6/05

Approved by (Signature)
BRADLEY G. HILL
Title
ENVIRONMENTAL SCIENTIST III

Name (Printed/Typed)

Date
12-12-05

Application approval does not warrant or certify the the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*(Instructions on reverse)

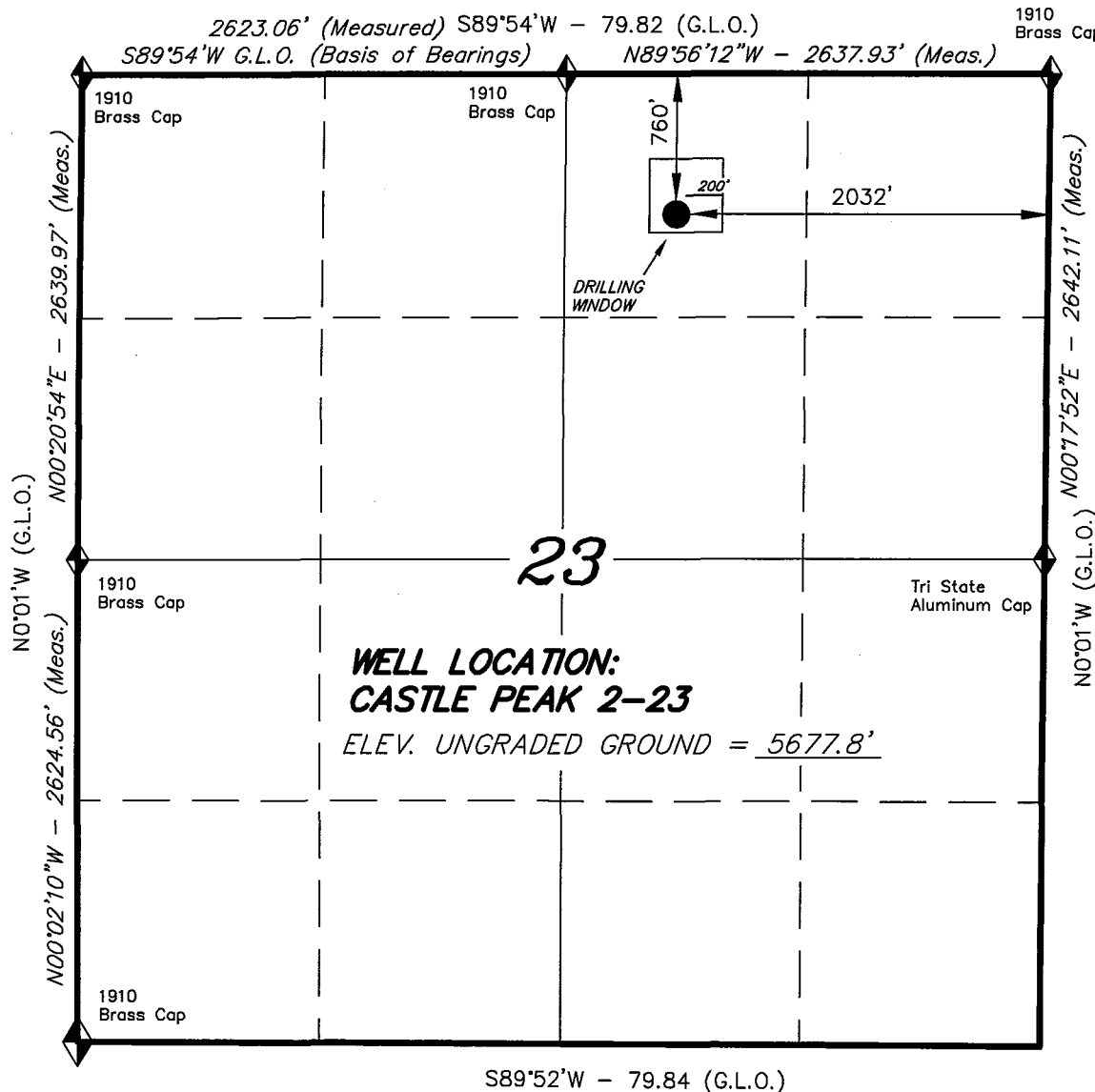
Federal Approval of this
Action is Necessary

RECEIVED
DEC 08 2005

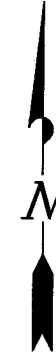
BLM, OFFICE OF MINING

T9S, R16E, S.L.B.&M.

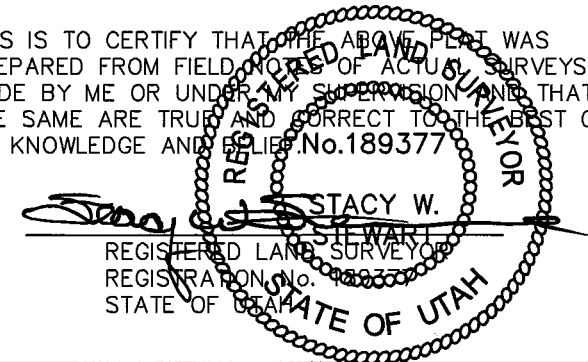
NEWFIELD PRODUCTION COMPANY



WELL LOCATION, CASTLE PEAK 2-23,
 LOCATED AS SHOWN IN THE NW 1/4 NE
 1/4 OF SECTION 23, T9S, R16E,
 S.L.B.&M. DUCHESNE COUNTY, UTAH.



THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS
 PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS
 MADE BY ME OR UNDER MY SUPERVISION AND THAT
 THE SAME ARE TRUE AND CORRECT TO THE BEST OF
 MY KNOWLEDGE AND BELIEF. No. 189377



◆ = SECTION CORNERS LOCATED

BASIS OF ELEV; U.S.G.S. 7-1/2 min QUAD (MYTON SE)

TRI STATE LAND SURVEYING & CONSULTING

180 NORTH VERNAL AVE. - VERNAL, UTAH 84078
 (435) 781-2501

SCALE: 1" = 1000'

SURVEYED BY: C.M.

DATE: 11-16-05

DRAWN BY: F.T.M.

NOTES:

FILE #

NEWFIELD PRODUCTION COMPANY
FEDERAL #2-23-9-16
NW/NE SECTION 23, T9S, R16E
DUCHESNE COUNTY, UTAH

ONSHORE ORDER NO. 1

DRILLING PROGRAM

1. GEOLOGIC SURFACE FORMATION:

Uinta formation of Upper Eocene Age

2. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:

Uinta	0' - 2365'
Green River	2365'
Wasatch	5730'

3. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS:

Green River Formation 2365' - 5730' - Oil

4. PROPOSED CASING PROGRAM

Please refer to the Monument Butte Field Standard Operation Procedure (SOP).

5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

Please refer to the Monument Butte Field SOP. See Exhibit "C".

6. TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATION MUDS:

Please refer to the Monument Butte Field SOP.

7. AUXILIARY SAFETY EQUIPMENT TO BE USED:

Please refer to the Monument Butte Field SOP.

8. TESTING, LOGGING AND CORING PROGRAMS:

Please refer to the Monument Butte Field SOP.

9. ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:

The anticipated maximum bottom hole pressure is 1800 psi. It is not anticipated that abnormal temperatures will be encountered.

10. ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS:

Please refer to the Monument Butte Field SOP.

NEWFIELD PRODUCTION COMPANY
FEDERAL #2-23-9-16
NW/NE SECTION 23, T9S, R16E
DUCHESNE COUNTY, UTAH

ONSHORE ORDER NO. 1

MULTI-POINT SURFACE USE & OPERATIONS PLAN

1. EXISTING ROADS

See attached Topographic Map "A"

To reach Newfield Production Company well location site Federal #2-23-9-16 located in the NW 1/4 NE 1/4 Section 23, T9S, R16E, Duchesne County, Utah:

Proceed southwesterly out of Myton, Utah along Highway 40 - 1.6 miles \pm to the junction of this highway and UT State Hwy 53; proceed southeasterly along Hwy 53 - 11.7 miles \pm to it's junction with an existing dirt road to the southwest; proceed southwesterly - 4.6 miles \pm to it's junction with the beginning of the proposed access road; proceed northwesterly along the proposed access road - 3,030' \pm to the proposed well location.

2. PLANNED ACCESS ROAD

See Topographic Map "B" for the location of the proposed access road.

3. LOCATION OF EXISTING WELLS

Refer to Exhibit "B".

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

All permanent surface equipment will be painted Carlsbad Canyon.
Please refer to the Monument Butte Field Standard Operating Procedure (SOP).

5. LOCATION AND TYPE OF WATER SUPPLY

Please refer to the Monument Butte Field SOP. See Exhibit "A".

6. SOURCE OF CONSTRUCTION MATERIALS

Please refer to the Monument Butte Field SOP.

7. METHODS FOR HANDLING WASTE DISPOSAL

Please refer to the Monument Butte Field SOP.

8. ANCILLARY FACILITIES

Please refer to the Monument Butte Field SOP.

9. **WELL SITE LAYOUT**

See attached Location Layout Diagram.

10. **PLANS FOR RESTORATION OF SURFACE**

Please refer to the Monument Butte Field SOP.

11. **SURFACE OWNERSHIP** - Bureau Of Land Management

12. **OTHER ADDITIONAL INFORMATION**

The Archaeological Resource Survey and Paleontological Resource Survey for this area are attached. MOAC Report #05-270, 9/7/05. Paleontological Resource Survey prepared by, Wade E. Miller, 9/28/05. See attached report cover pages, Exhibit "D".

For the Federal #3-23-9-16 Newfield Production Company requests 3030' of disturbed area be granted in Least UTU-15855 to allow for construction of the proposed access road. **Refer to Topographic Map "B"**. The proposed access road will be an 18' crown road (9' either side of the centerline) with drainage ditches along either side of the proposed road whether it is deemed necessary in order to handle any run-off from normal meteorological conditions that are prevalent to this area. The maximum grade will be less than 8%. There will be no culverts required along this access road. There will be barrow ditches and turnouts as needed along this road. There are no fences encountered along this proposed road. There will be no new gates or cattle guards required. All construction material for this access road will be borrowed material accumulated during construction of the access road.

Newfield Production Company requests 3030' of disturbed area be granted in Lease UTU-15855 to allow for construction of the proposed gas lines. It is proposed that the disturbed area will be 50' wide to allow for construction of a buried 6" gas gathering line, and a buried 3" poly fuel gas line. Both lines will tie in to the existing pipeline infrastructure. **Refer to Topographic Map "C."** For a ROW plan of development, please refer to the Monument Butte Field SOP.

Water Disposal

Immediately upon first production, all produced water will be confined to a steel storage tank. If the production water meets quality guidelines, it is transported to the Ashley, Monument Butte, Jonah, and Beluga water injection facilities by company or contract trucks. Subsequently, the produced water is injected into approved Class II wells to enhance Newfield's secondary recovery project.

Water not meeting quality criteria, is disposed at Newfield's Pariette #4 disposal well (Sec. 7, T9S R19E) or at State of Utah approved surface disposal facilities.

Threatened, Endangered, And Other Sensitive Species

Golden Eagle: Due to this proposed well access roads proximity (less than 0.5 mile) to an existing inactive golden eagle nest site, no new construction or surface disturbing activities will be allowed between March 1 and May 15. If the nest remains inactive on May 15th (based on a pre-construction survey by a qualified biologist), the operator may construct and drill the location between May 15 and March 1 of the following year. If the nest site becomes active prior to May 15, no new construction or surface disturbing activities will be allowed within 0.5 mile of the nest until the nest becomes inactive for two full breeding seasons. In the event that this well becomes a producing well, it must be equipped with a multi-cylinder engine or hospital muffler to reduce noise levels.

Burrowing Owl: Due to the proximity of the location to active prairie dog towns, there is the potential to encounter nesting burrowing owls between April 1 and August 15. If new

construction or surface disturbing activities are scheduled between April 1 and August 15, pre-construction surveys will be conducted to detect the presence of nesting burrowing owls within 0.5 mile of any new construction or surface disturbing activity (see Vernal BLM Field Office Protocol). No new construction or surface disturbing activities will be allowed between April 1 and August 15 within a 0.5 mile radius of any active burrowing owl nest.

Reserve Pit Liner

A 12 mil liner with felt will be required at the operators own discretion. Please refer to the Monument Butte Field SOP.

Location and Reserve Pit Reclamation

Please refer to the Monument Butte Field SOP.

The following seed mixture will be used on the topsoil stockpile, to the recontoured surface of the reserve pit, and for final reclamation: (All poundages are in pure live seed)

Crested Wheatgrass	<i>Agropyron Cristatum</i>	12 lbs/acre
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Details of the On-Site Inspection

The proposed Federal #2-23-9-16 was on-sited on 8/31/05. The following were present; Shon Mckinnon (Newfeild Production), Byron Tolman (Bureau of Land Management), and Todd MaGrath (Bureau of Landmanagement). Weather conditions were clear and ground cover was 100% open.

13. **LESSEE'S OR OPERATORS REPRESENTATIVE AND CERTIFICATION**
Representative

Name: Shon Mckinnon
Address: Route #3 Box 3630
Myton, UT 84052
Telephone: (435) 646-3721

Certification

Please be advised that NEWFIELD PRODUCTION COMPANY is considered to be the operator of well #2-23-9-16 NW/NE Section 23, Township 9S, Range 16E: Lease UTU-15855 Duchesne County, Utah: and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by Hartford Accident #4488944.

I hereby certify that the proposed drillsite and access route have been inspected, and I am familiar with the conditions which currently exist; that the statements made in this plan are true and correct to the best of my knowledge; and that the work associated with the operations proposed here will be performed by Newfield Production Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

12/6/05
Date

Mandie Crozier
Mandie Crozier
Regulatory Specialist
Newfield Production Company

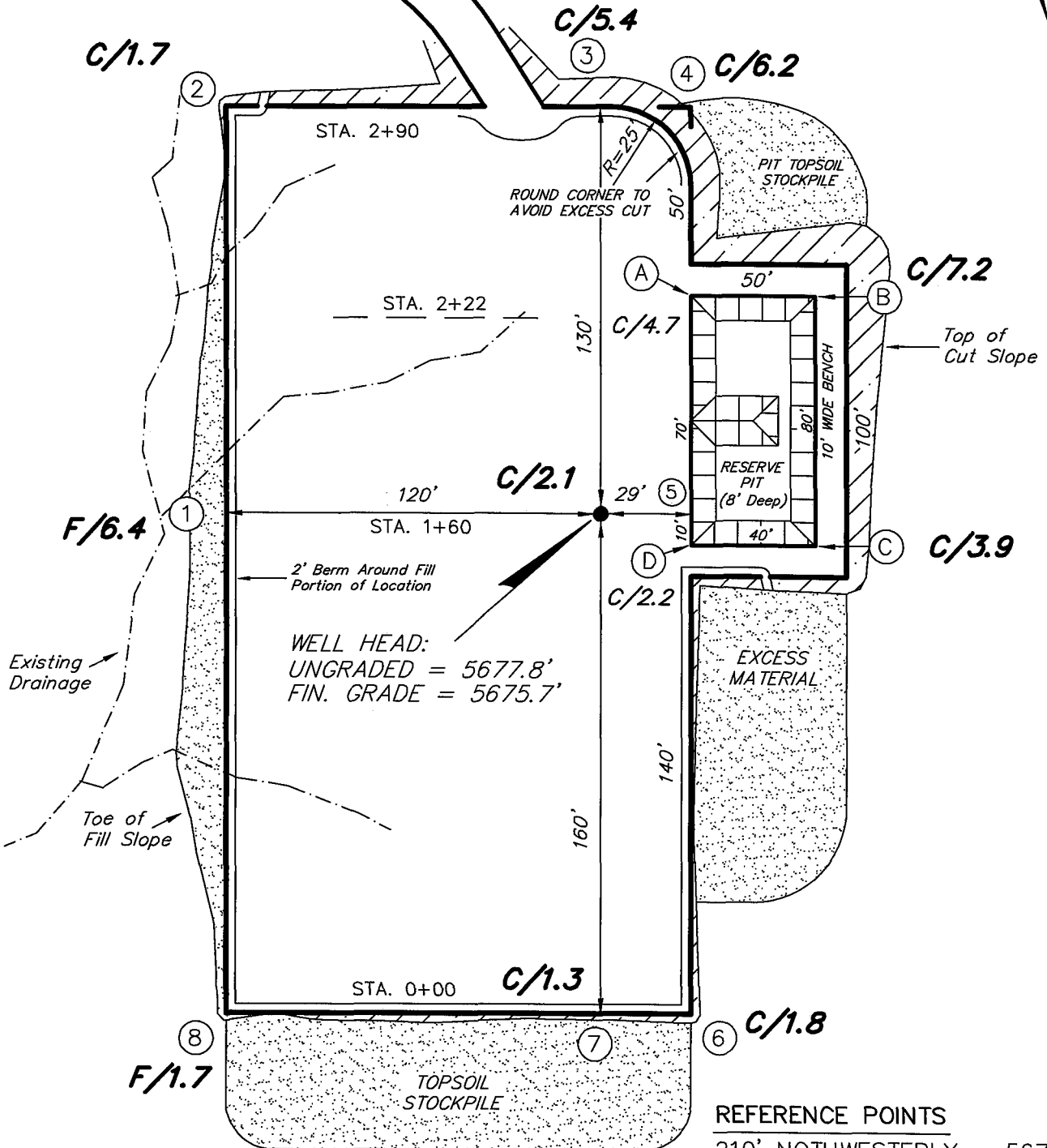
NEWFIELD PRODUCTION COMPANY

CASTLE PEAK 2-23

Section 23, T9S, R16E, S.L.B.&M.



PROPOSED ACCESS
ROAD (Max. 6% Grade)



REFERENCE POINTS

210' NORTHWESTERLY = 5676.2'
260' NORTHWESTERLY = 5680.3'
170' SOUTHEASTERLY = 5668.9'
220' SOUTHEASTERLY = 5668.2'

SURVEYED BY: C.M.

SCALE: 1" = 50'

DRAWN BY: F.T.M.

DATE: 11-16-05

Tri State
Land Surveying, Inc.

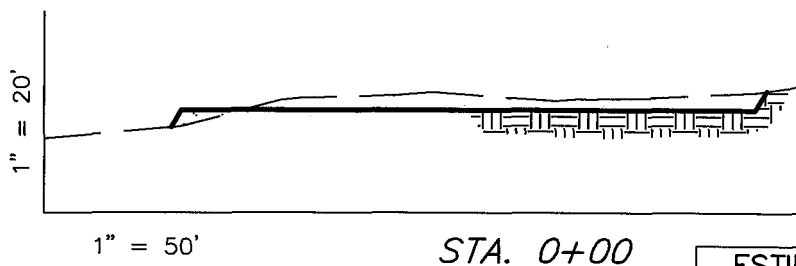
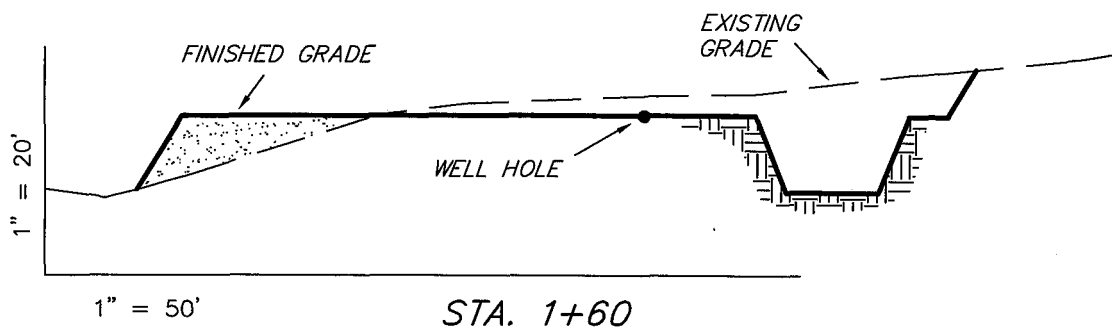
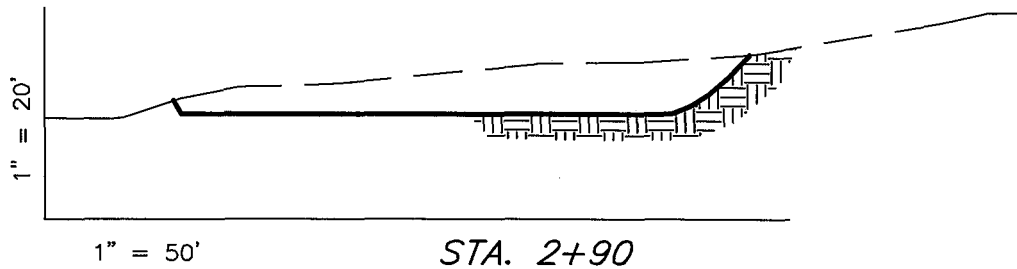
(435) 781-2501

180 NORTH VERNAL AVE. VERNAL, UTAH 84078

NEWFIELD PRODUCTION COMPANY

CROSS SECTIONS

CASTLE PEAK 2-23



NOTE:
UNLESS OTHERWISE NOTED
ALL CUT/FILL SLOPES ARE
AT 1.5:1

ESTIMATED EARTHWORK QUANTITIES
(No Shrink or swell adjustments have been used)
(Expressed in Cubic Yards)

ITEM	CUT	FILL	6" TOPSOIL	EXCESS
PAD	2,430	2,430	Topsoil is not included in Pad Cut	0
PIT	640	0		640
TOTALS	3,070	2,430	1,010	640

SURVEYED BY: C.M.

SCALE: 1" = 50'

DRAWN BY: F.T.M.

DATE: 11-16-05

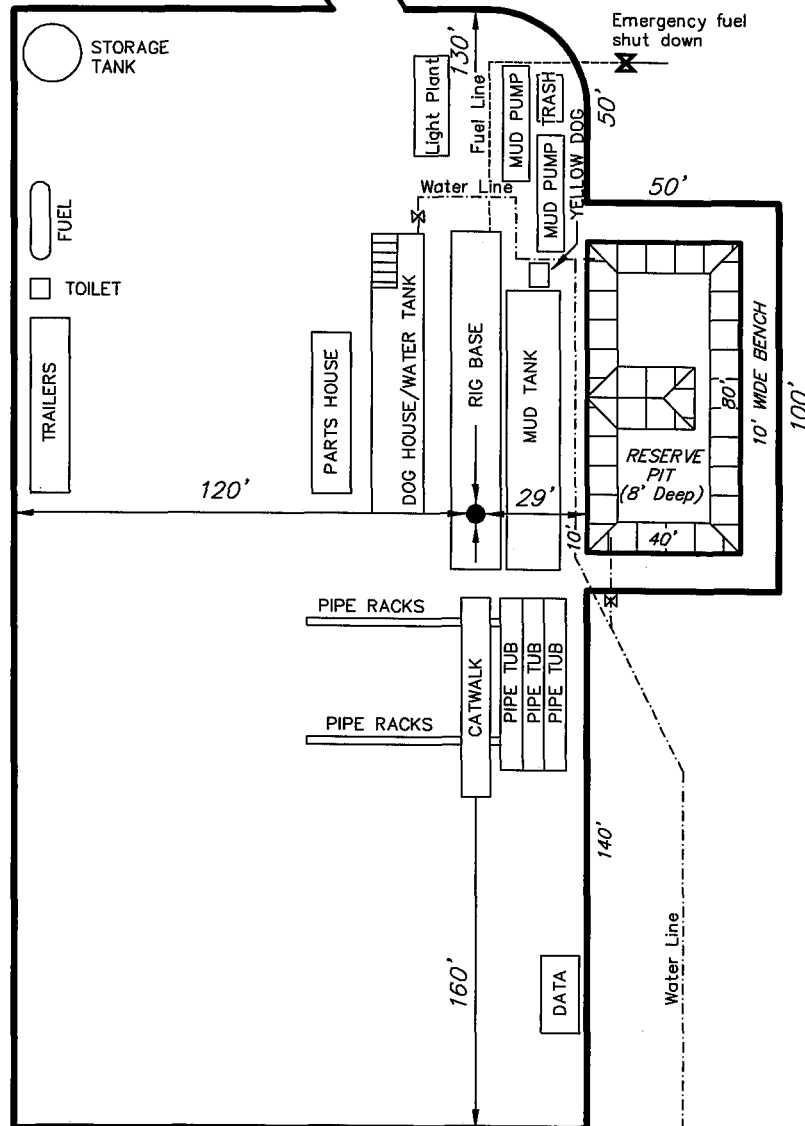
Tri State
Land Surveying, Inc.
180 NORTH VERNAL AVE. VERNAL, UTAH 84078
(435) 781-2501

NEWFIELD PRODUCTION COMPANY

TYPICAL RIG LAYOUT

CASTLE PEAK 2-23

PROPOSED ACCESS
ROAD (Max. 6% Grade)



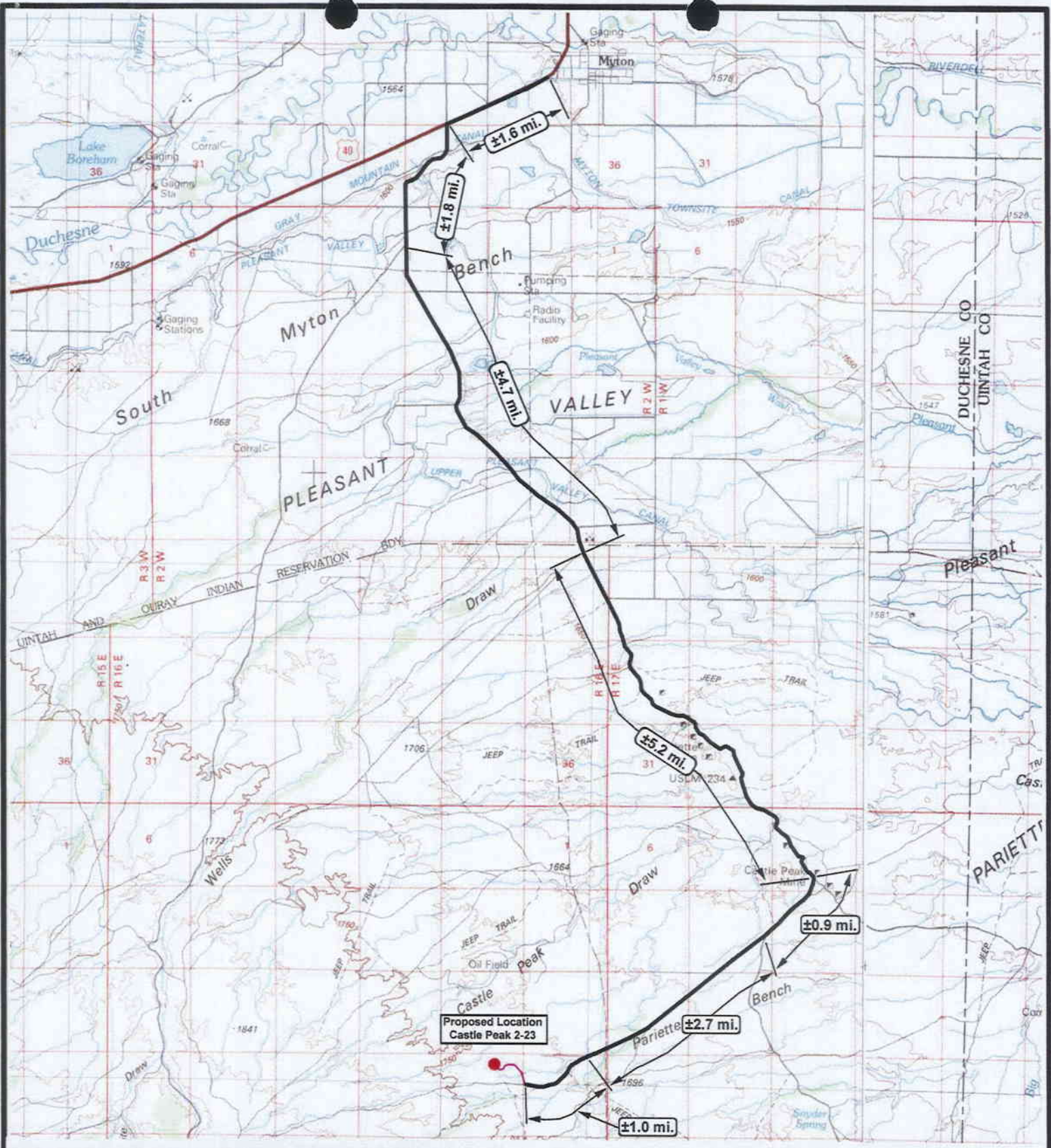
SURVEYED BY: C.M.



SCALE: 1" = 50'

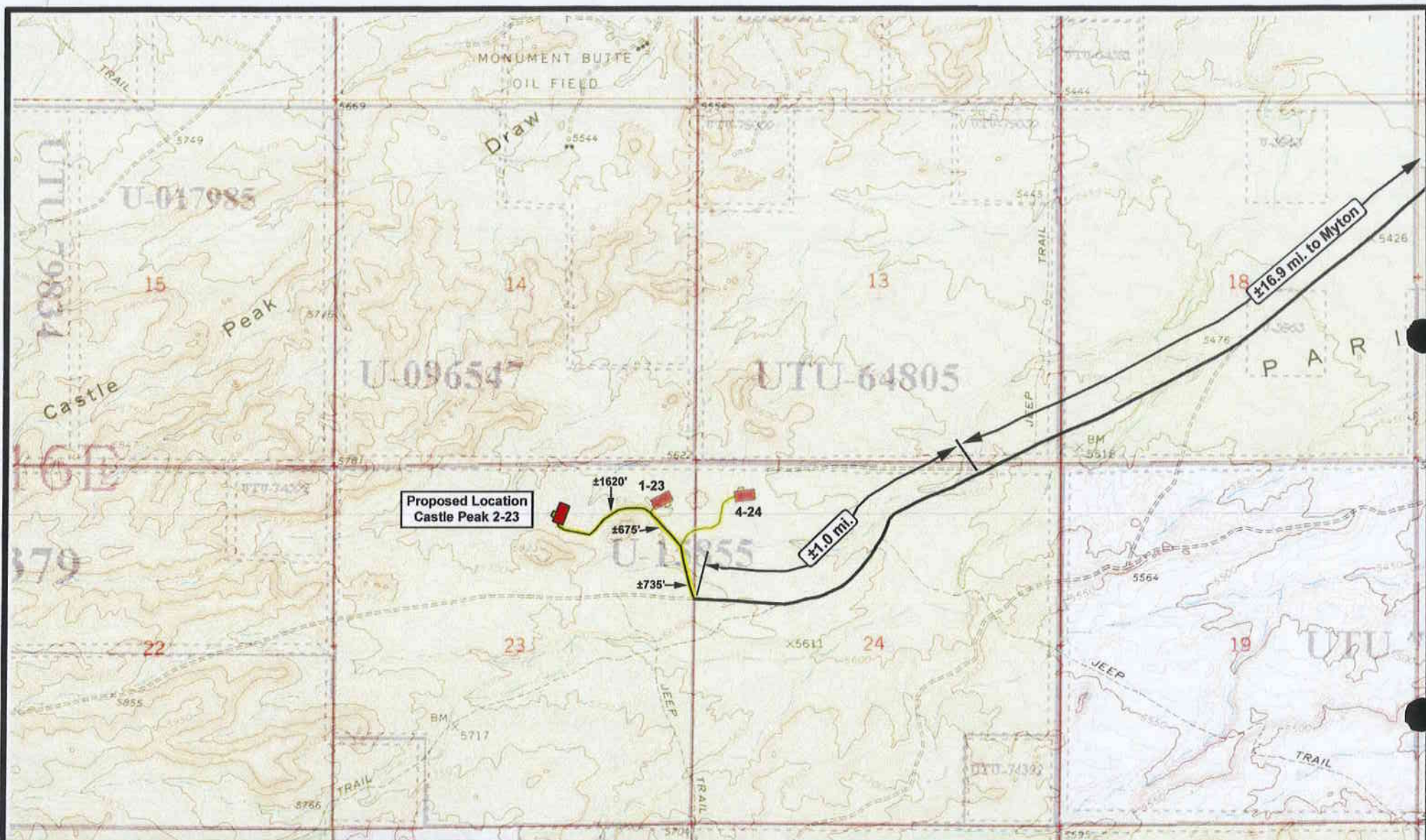
DRAWN BY: F.T.M.

DATE: 11-16-05

Tri State
Land Surveying, Inc.
(435) 781-2501
180 NORTH VERNAL AVE. VERNAL, UTAH 84078



 <p>NEWFIELD Exploration Company</p> <p>Castle Peak 2-23-9-16 SEC. 23, T9S, R16E, S.L.B.&M.</p>		<p>Tri-State Land Surveying Inc.</p> <p>(435) 781-2501 180 North Vernal Ave. Vernal, Utah 84078</p> <p>SCALE: 1 = 100,000 DRAWN BY: mw DATE: 11-17-2005</p>	<p>Legend</p> <p>Existing Road Proposed Access</p> <p>TOPOGRAPHIC MAP</p> <p>"A"</p>
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NEWFIELD
Exploration Company

Castle Peak 2-23-9-16
SEC. 23, T9S, R16E, S.L.B.&M.



 (435) 781-2501
180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1" = 2,000'

DRAWN BY: mw

DATE: 11-17-2005

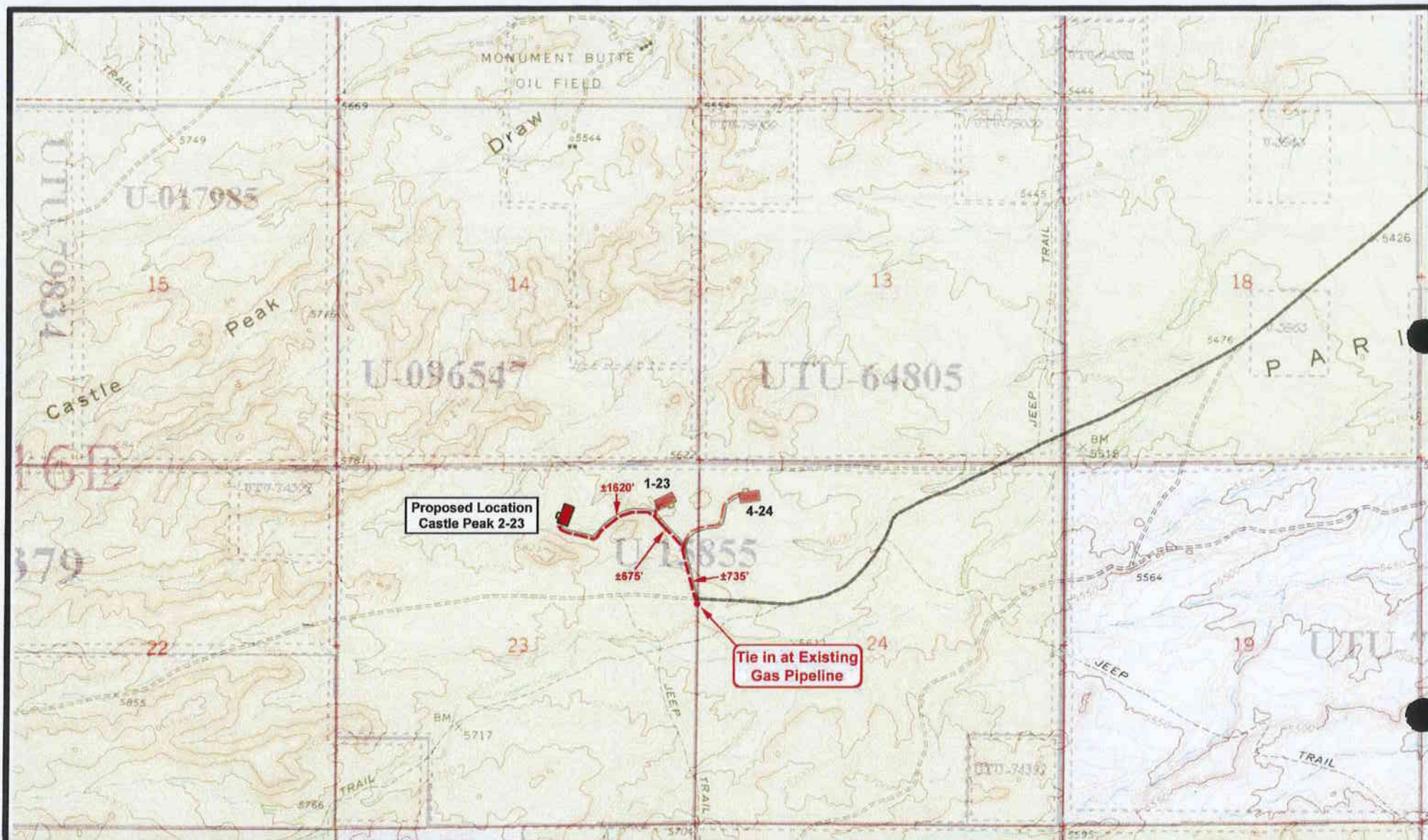
Legend


Existing Road

Proposed Access

TOPOGRAPHIC MAP

"B"



 **NEWFIELD**
Exploration Company

Castle Peak 2-23-9-16
SEC. 23, T9S, R16E, S.L.B.&M.

 **Tri-State**
Land Surveying Inc.
(435) 781-2501
180 North Vernal Ave. Vernal, Utah 84078

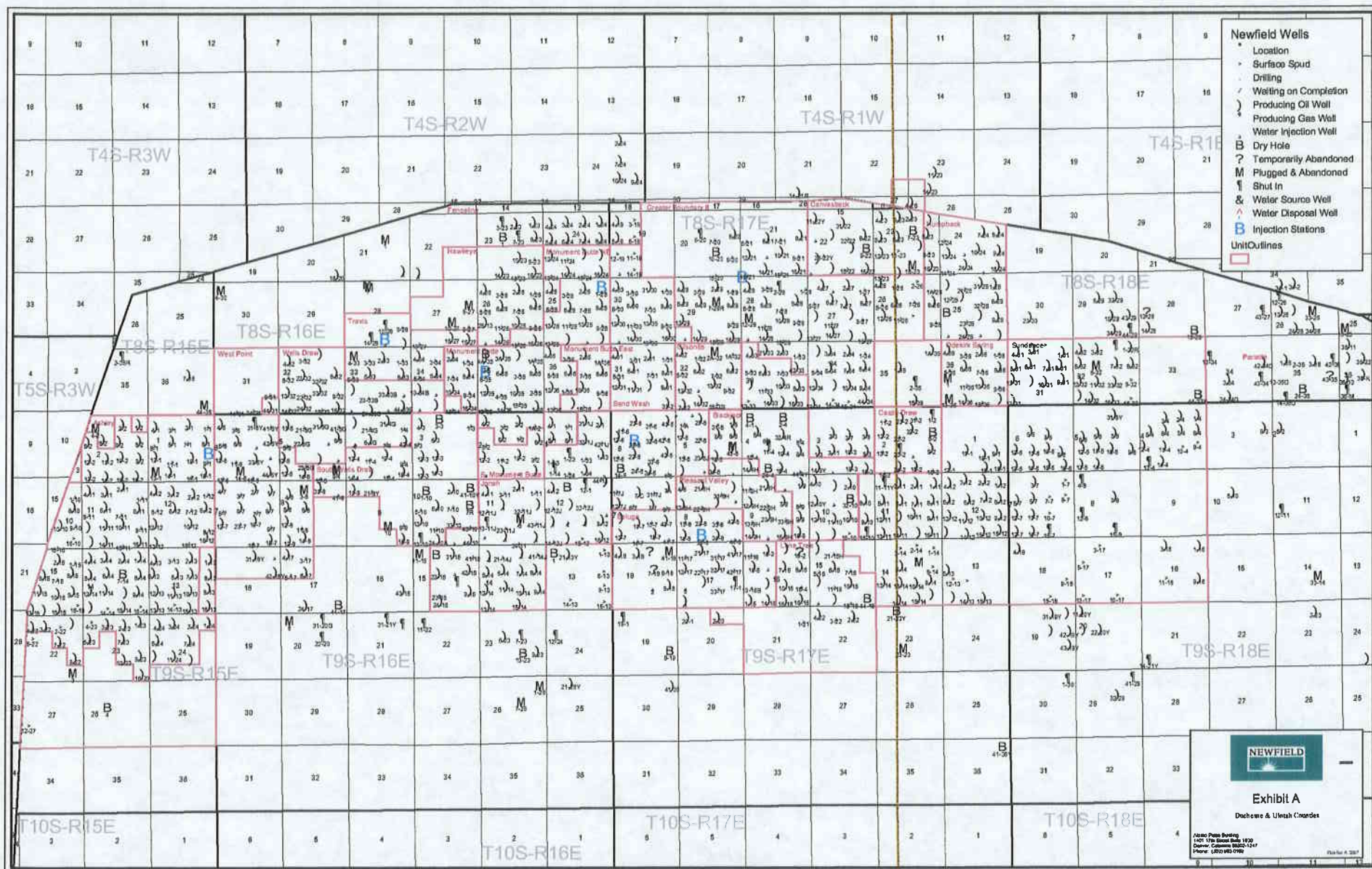
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DATE: 11-17-2005

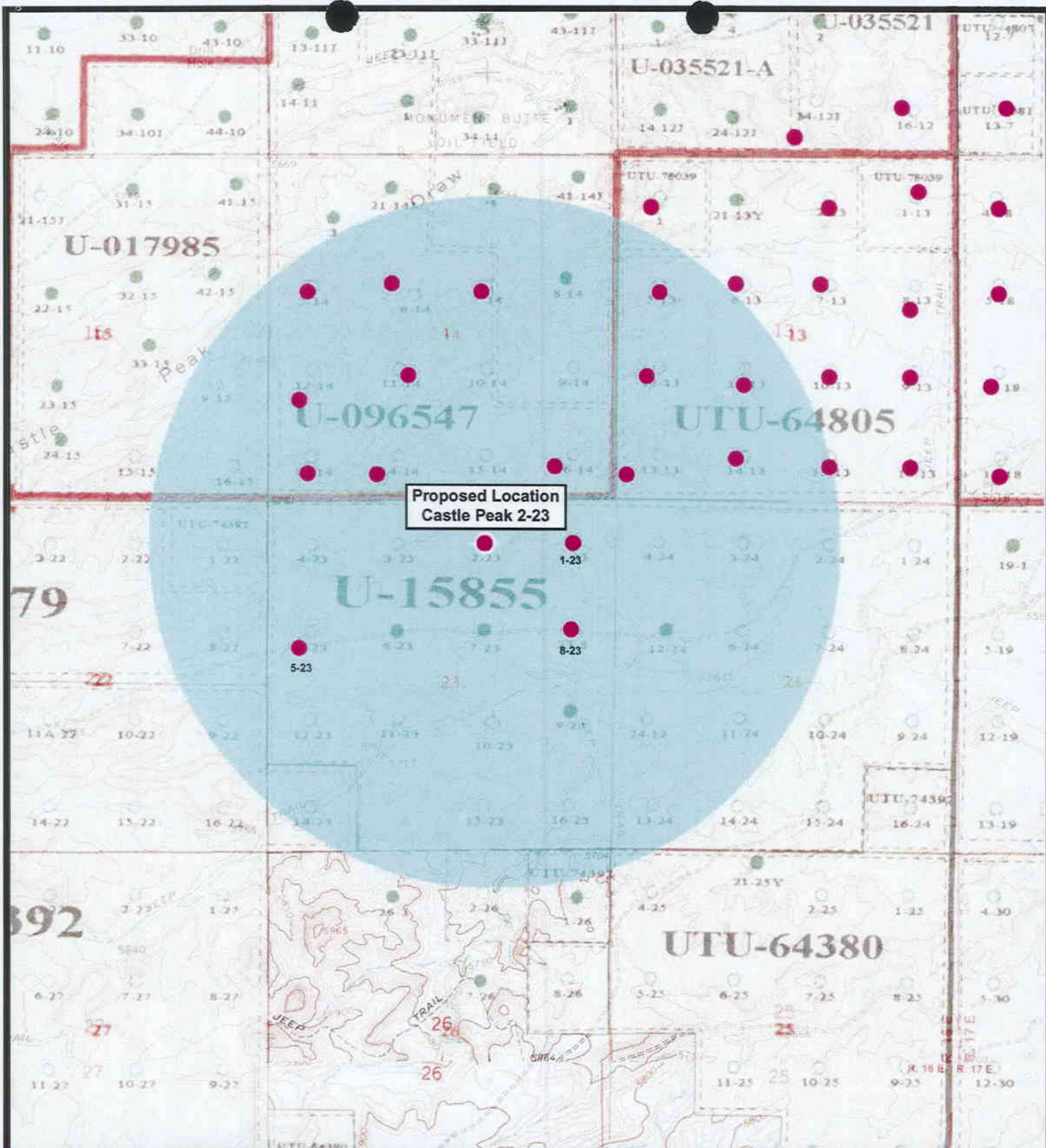
Legend

— Roads
- - - Proposed Gas Line


TOPOGRAPHIC MAP

"C"





Proposed Location
Castle Peak 2-23



NEWFIELD
Exploration Company

Castle Peak 2-23-9-16
SEC. 23, T9S, R16E, S.L.B.&M.






Tri-State
Land Surveying Inc.
(435) 781-2501
180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1" = 2,000'
DRAWN BY: mw
DATE: 11-17-2005

Legend

 **Well Locations**


 **One-Mile Radius**

Exhibit "B"

2-M SYSTEM

Blowout Prevention Equipment Systems

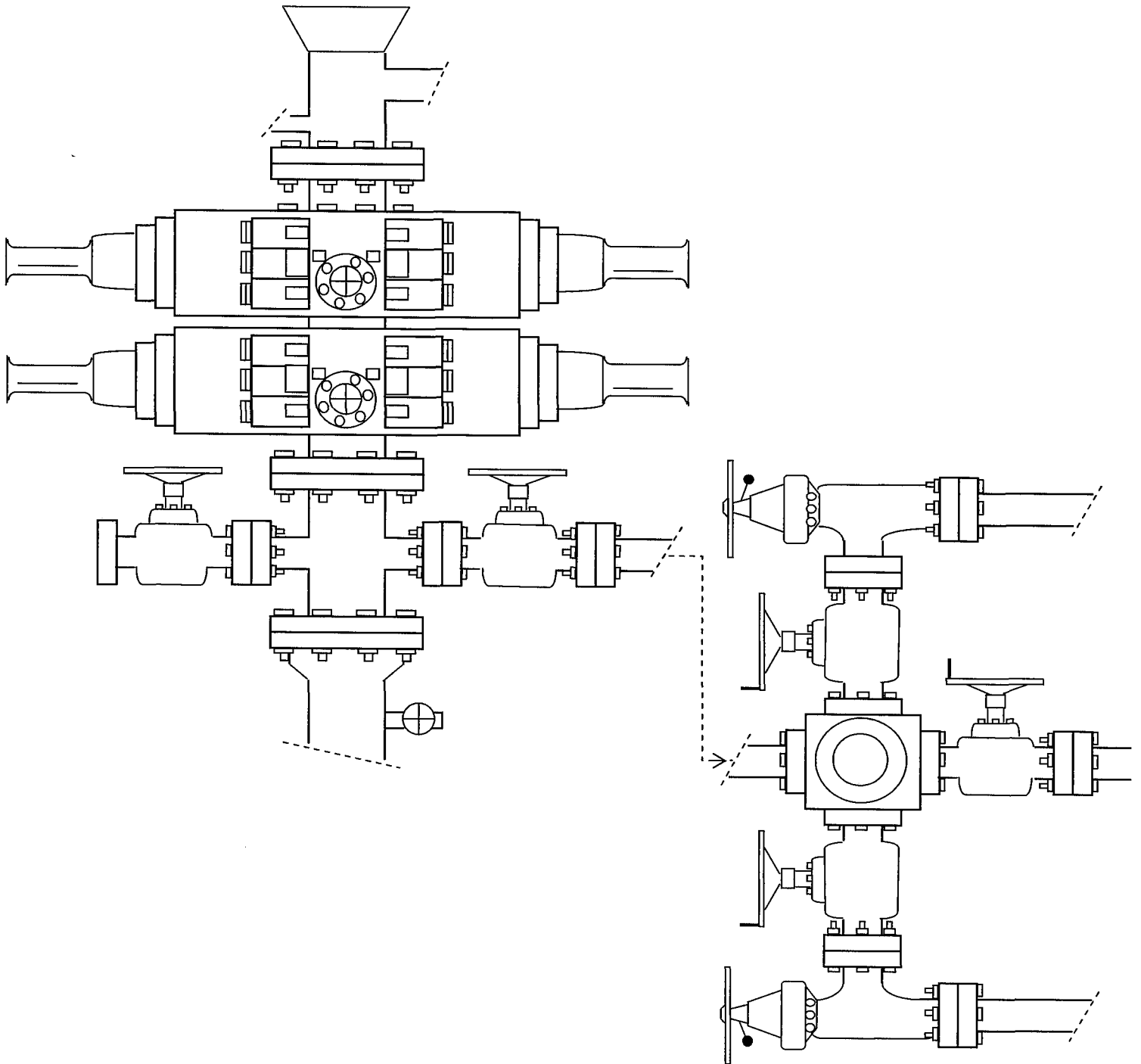


EXHIBIT C

Exhibit "D"
page 1 of 2

CULTURAL RESOURCE INVENTORY OF
NEWFIELD EXPLORATION'S BLOCK PARCEL
IN TOWNSHIP 9S, RANGE 16E, SECTION 23 and 24,
DUCHESNE COUNTY, UTAH

By:

Andre' Jendresen
and
Keith Montgomery

Prepared For:

Bureau of Land Management Vernal Field Office

Prepared Under Contract With:

Newfield Exploration Company
Rt. 3 Box 3630
Myton, UT 84052

Submitted By:

Keith R. Montgomery
Montgomery Archaeological Consultants, Inc.
P.O. Box 147
Moab, Utah 84532

MOAC Report No. 05-270

September 7, 2005

United States Department of Interior (FLPMA)
Permit No. 05-UT-60122

State of Utah Antiquities Project (Survey)
Permit No. U-05-MQ-0831b

NEWFIELD PRODUCTION COMPANY

**PALEONTOLOGICAL FIELD SURVEY OF PROPOSED
PRODUCTION DEVELOPMENT AREAS,
DUCHESNE COUNTY, UTAH**

SW 1/4, SE 1/4, and SW 1/4, Section 9 [9,11,12,13 & 14-9-9-16]; Entire Section 22 (excluding NE 1/4, NE 1/4 & NW 1/4, NW 1/4) [2,3,5 through 16-9-9-16]; Entire Section 23 (excluding SE 1/4, NW 1/4, SW 1/4, NE 1/4, NE 1/4 & NW 1/4, SE 1/4) [1 through 5, 8,11 through 16-9-9-16]; Entire Section 24 (excluding SW 1/4, NW 1/4) [1 through 4, 6 through 16-9-9-16] all in Township 9 South, Range 16 East

REPORT OF SURVEY

Prepared for:

Newfield Production Company

Prepared by:

Wade E. Miller
Consulting Paleontologist
September 28, 2005

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 12/08/2005

API NO. ASSIGNED: 43-013-33003

WELL NAME: FEDERAL 2-23-9-16

OPERATOR: NEWFIELD PRODUCTION (N2695)

CONTACT: MANDIE CROZIER

PHONE NUMBER: 435-646-3721

PROPOSED LOCATION:

NWNE 23 090S 160E

SURFACE: 0760 FNL 2032 FEL

BOTTOM: 0760 FNL 2032 FEL

DUCHESNE

MONUMENT BUTTE (105)

INSPECT LOCATN BY: / /

Tech Review

Initials

Date

Engineering

Geology

Surface

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU-15855

SURFACE OWNER: 1 - Federal

PROPOSED FORMATION: GRRV

COALBED METHANE WELL? NO

LATITUDE: 40.02157

LONGITUDE: -110.0838

RECEIVED AND/OR REVIEWED:

☒ Plat

☒ Bond: Fed[1] Ind[] Sta[] Fee[]
(No. UT0056)

☒ Potash (Y/N)

☒ Oil Shale 190-5 (B) or 190-3 or 190-13

☒ Water Permit
(No. MUNICIPAL)

☒ RDCC Review (Y/N)
(Date: _____)

☒ Fee Surf Agreement (Y/N)

☒ Intent to Commingle (Y/N)

LOCATION AND SITING:

☐ R649-2-3.

Unit _____

☒ R649-3-2. General

Siting: 460 From Qtr/Qtr & 920' Between Wells

☐ R649-3-3. Exception

☐ Drilling Unit

Board Cause No: _____

Eff Date: _____

Siting: _____

☐ R649-3-11. Directional Drill

COMMENTS: _____

See Separate File

STIPULATIONS: _____

1- Federal Approval
2- Spacing Strip



OPERATOR: NEWFIELD PROD CO (N2695)

SEC: 23,24 T. 9S R. 16E

FIELD: MONUMENT BUTTE (105)

COUNTY: DUCHESNE

SPACING: R649-3-2 / GENERAL SITING

Field Status

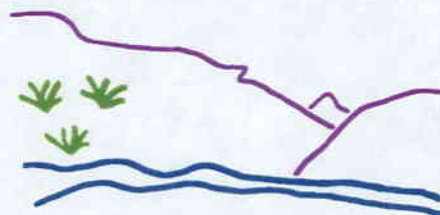
- ABANDONED
- ACTIVE
- COMBINED
- INACTIVE
- PROPOSED
- STORAGE
- TERMINATED

Unit Status

- EXPLORATORY
- GAS STORAGE
- NF PP OIL
- NF SECONDARY
- PENDING
- PI OIL
- PP GAS
- PP GEOTHERML
- PP OIL
- SECONDARY
- TERMINATED

Wells Status

- GAS INJECTION
- GAS STORAGE
- LOCATION ABANDONED
- NEW LOCATION
- PLUGGED & ABANDONED
- PRODUCING GAS
- PRODUCING OIL
- SHUT-IN GAS
- SHUT-IN OIL
- TEMP. ABANDONED
- TEST WELL
- WATER INJECTION
- WATER SUPPLY
- WATER DISPOSAL
- DRILLING



Utah Oil Gas and Mining



PREPARED BY: DIANA WHITNEY
DATE: 12-DECEMBER-2005



State of Utah

**Department of
Natural Resources**

MICHAEL R. STYLER
Executive Director

**Division of
Oil, Gas & Mining**

JOHN R. BAZA
Division Director

JON M. HUNTSMAN, JR.
Governor

GARY R. HERBERT
Lieutenant Governor

December 12, 2005

Newfield Production Company
Rt. #3, Box 3630
Myton, UT 84052

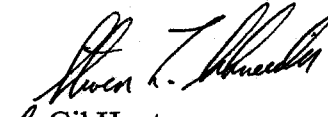
Re: Federal 2-23-9-16 Well, 760' FNL, 2032' FEL, NW NE, Sec. 23, T. 9 South,
R. 16 East, Duchesne County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-013-33003.

Sincerely,


for Gil Hunt
Associate Director

pab
Enclosures

cc: Duchesne County Assessor
Bureau of Land Management, Vernal District Office

Operator: Newfield Production Company
Well Name & Number Federal 2-23-9-16
API Number: 43-013-33003
Lease: UTU-15855

Location: NW NE Sec. 23 T. 9 South R. 16 East

Conditions of Approval

1. General

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

2. Notification Requirements

Notify the Division within 24 hours of spudding the well.

- Contact Carol Daniels at (801) 538-5284.

Notify the Division prior to commencing operations to plug and abandon the well.

- Contact Dan Jarvis at (801) 538-5338

3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.

5. This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.

400617

RECEIVED

DEC 07 2005

BLM VERMIL, UTAH

Form 3160-3
(September 2001)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

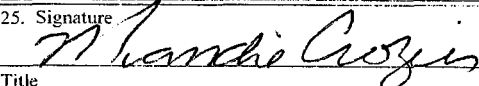
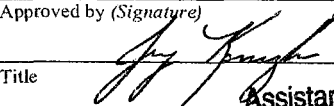
FORM APPROVED
OMB No. 1004-0136
Expires January 31, 2004

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU-15855
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name N/A
2. Name of Operator Newfield Production Company		7. If Unit or CA Agreement, Name and No. N/A
3a. Address Route #3 Box 3630, Myton UT 84052	3b. Phone No. (include area code) (435) 646-3721	8. Lease Name and Well No. Federal 2-23-9-16
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface NW/NE 760' FNL 2032' FEL At proposed prod. zone		9. API Well No. 43-013-33003
14. Distance in miles and direction from nearest town or post office* Approximatley 18.5 miles southwest of Myton, Utah		10. Field and Pool, or Exploratory Monument Butte
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) Approx. 760' f/ise, NA' f/unit		11. Sec., T., R., M., or Blk. and Survey or Area NW/NE Sec. 23, T9S R16E
16. No. of Acres in lease 1200.00		12. County or Parish Duchesne
17. Spacing Unit dedicated to this well 40 Acres		13. State UT
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. Approx. 1688'		20. BLM/BIA Bond No. on file UT0056
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 5678' GL	22. Approximate date work will start* 1st Quarter 2006	23. Estimated duration Approximately seven (7) days from spud to rig release.

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form:

- | | |
|---|--|
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification. |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the authorized officer. |

25. Signature 	Name (Printed/Typed) Mandie Crozier	Date 12/6/05
Title Regulatory Specialist		
Approved by (Signature) 	Name (Printed/Typed) Jerry Kewels	Date 9-8-2006
Title Assistant Field Manager	Office	

Application approval does not constitute a warranty that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*(Instructions on reverse)

NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED
RECEIVED

SEP 15 2006

DIV. OF OIL, GAS & MINING



UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
VERNAL FIELD OFFICE

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company: Newfield Production Company
Well No: Federal 2-23-9-16
API No: 43-013- 33003

Location: NWNE, Sec 23, T9S, R16E
Lease No: UTU-15855
Agreement: N/A

Petroleum Engineer:	Matt Baker	Office: 435-781-4490	Cell: 435-828-4470
Petroleum Engineer:	Michael Lee	Office: 435-781-4432	Cell: 435-828-7875
Supervisory Petroleum Technician:	Jamie Sparger	Office: 435-781-4502	Cell: 435-828-3913
Environmental Scientist:	Paul Buhler	Office: 435-781-4475	Cell: 435-828-4029
Environmental Scientist:	Karl Wright	Office: 435-781-4484	
Natural Resource Specialist:	Holly Villa	Office: 435-781-4404	
Natural Resource Specialist:	Melissa Hawk	Office: 435-781-4476	
Natural Resource Specialist:	Chris Carusona	Office: 435-781-4441	
Natural Resource Specialist:	Scott Ackerman	Office: 435-781-4437	
After Hours Contact Number: 435-781-4513		Fax: 435-781-4410	

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a one-year period. An additional year extension may be applied for by sundry notice prior to expiration.**

NOTIFICATION REQUIREMENTS

- | | |
|---|---|
| Location Construction
(Notify Chris Carusona) | - Forty-Eight (48) hours prior to construction of location and access roads. |
| Location Completion
(Notify Chris Carusona) | - Prior to moving on the drilling rig. |
| Spud Notice
(Notify Petroleum Engineer) | - Twenty-Four (24) hours prior to spudding the well. |
| Casing String & Cementing
(Notify Jamie Sparger) | - Twenty-Four (24) hours prior to running casing and cementing all casing strings |
| BOP & Related Equipment Tests
(Notify Jamie Sparger) | - Twenty-Four (24) hours prior to initiating pressure tests |
| First Production Notice
(Notify Petroleum Engineer) | - Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days |

***SURFACE USE PROGRAM
CONDITIONS OF APPROVAL (COAs)***

- This well is being approved in accordance with Washington Instruction Memorandum 2005-247 and Section 390 (Category 3) of the Energy Policy Act which establishes statutory categorical exclusions (CX) under the National Environmental Policy Act (NEPA). Category 3 states that an oil or gas well can be drilled within a developed field for which an approved land use plan or any environmental document prepared pursuant to NEPA analyzed drilling as a reasonably foreseeable activity, so long as such plan or document was approved within five (5) years prior to the date of spudding the well. This well is covered under the Final Environmental Impact Statement and Record of Decision Castle Peak and Eightmile Flat Oil and Gas Exploration Project Newfield Rocky Mountains Inc., signed November 21, 2005. If the well has not been spudded by November 21, 2010, a new environmental document will have to be prepared prior to the approval of the APD.
- All applicable local, state, and/or federal laws, regulations, and/or statutes must be complied with.
- Construction related traffic shall be restricted to approved routes. Cross-country vehicle travel will not be allowed.
- No drilling or surface disturbing activities are allowed 600' or less from live water.
- If additional erosion occurs during the life of this project, more culverts, low water crossings, berms, wing ditches or etc. will be needed to control the erosion.
- The reserve pit will be lined with a 16 ml or greater liner prior to spudding.
- No vehicle travel, construction or routine maintenance activities shall be performed during periods when the soil is too wet to adequately support vehicles and/or construction equipment. If such equipment creates ruts in excess of four inches deep, the soil shall be deemed too wet to adequately support construction equipment.
- The liner is to be cut 5 feet below ground or at the level of the cuttings, whichever is deeper and the excess liner material is to be disposed of at an authorized disposal site.
- When the reserve pit contains fluids or toxic substances, the operator must ensure that animals do not ingest or become entrapped in pit fluids.
- The well pad and access/pipeline require monitoring by a qualified Paleontologist prior to and during any surface disturbing activities.
- Prevent fill and stock piles from entering drainages.
- Cultural And Paleontological Resources - Any cultural and/or paleontological resource (historic or prehistoric site or object or fossil) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the authorized officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the authorized officer. An evaluation of the discovery will be made by the authorized officer to determine appropriate actions to prevent the loss of significant cultural

or scientific values. The holder will be responsible for the cost of evaluation and a decision as to proper mitigation measures shall be made by the authorized officer after consulting with the holder.

- The access road will be crowned and ditched. Flat-bladed roads are NOT allowed.
- Notify the Authorized Officer 48 hours prior to surface disturbing activities.
- All well facilities not regulated by OSHA will be painted Carlsbad Canyon.
- The boulders >3' found at the surface or above ground will be saved for final reclamation.
- Interim Reclamation (see below):
- Where possible, strip six inches of topsoil from the location as shown on the cut sheet. After the well is converted to an injection well, the topsoil will be spread and re-contoured on the location and immediately seeded with the seed mix below.

Interim Reclamation Seed Mix for location:

Galleta grass	Hilaria jamesii	6 lbs/acre
Western wheatgrass	Pascopyrum smithii	<u>6 lbs/acre</u>
	Per Live Seed Total	12 lbs/acre

- The topsoil from the reserve pit should be stripped and piled separately near the reserve pit. When the reserve pit is closed it should be re-contoured, then the area should be seeded in the same manner as the topsoil.
- There shall be no primary or secondary noxious weeds in the seed mixture.
- Once the location is plugged and abandoned contact the Authorized Officer for final reclamation plans.
- The above listed seed mix shall be used to seed all unused portions of the pad including the topsoil and stock piles, and the reserve pits. Re-seeding may be required if the first seeding is not successful.
- The seed shall be drilled or disked into the ground or hand broadcast onto the ground. Planting depth shall not exceed one-half inch using a seed drill. If the seed is hand broadcast then the seed mixture will be doubled and the area raked or chained to cover the seed.

DOWNHOLE CONDITIONS OF APPROVAL

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

SITE SPECIFIC DOWNHOLE CONDITIONS OF APPROVAL

- None

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well. Any changes in operation must have prior approval from the BLM, Vernal Field Office Petroleum Engineers.
- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- **Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.**
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- All shows of fresh water and minerals shall be reported and protected. A sample shall be taken of any water flows and a water analysis furnished the BLM, Vernal Field Office. All oil and gas shows shall be adequately tested for commercial possibilities, reported, and protected.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM, Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM, Vernal Field Office shall be obtained and notification given before resumption of operations.
- Chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a

weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.

- Any change in the program shall be approved by the BLM, Vernal Field Office. "Sundry Notices and Reports on Wells" (Form BLM 3160-5) shall be filed for all changes of plans and other operations in accordance with 43 CFR 3162.3-2.
- Emergency approval may be obtained orally, but such approval does not waive the written report requirement. Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan pursuant to Onshore Oil & Gas Order No. 1 of 43 CFR 3164.1 and prior approval by the BLM, Vernal Field Office.
- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.
- A cement bond log (CBL) will be run from the production casing shoe to the surface casing shoe and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in LAS format to UT_VN_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease shall have prior written approval from the BLM, Vernal Field Office.
- All measurement points shall be identified as point of sales or allocation for royalty determination prior to the installation of facilities.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM, Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement.

- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM, Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- This APD is approved subject to the requirement that, should the well be successfully completed for production, the BLM, Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
 - Operator name, address, and telephone number.
 - Well name and number.
 - Well location (¼¼, Sec., Twn, Rng, and P.M.).
 - Date well was placed in a producing status (date of first production for which royalty will be paid).
 - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
 - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
 - Unit agreement and / or participating area name and number, if applicable.
 - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from Field Office Petroleum Engineers.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**

FORM APPROVED

Budget Bureau No. 1004-0135

Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry a different reservoir.
Use "APPLICATION FOR PERMIT -" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

NEWFIELD PRODUCTION COMPANY

3. Address and Telephone No.

Rt. 3 Box 3630, Myton Utah, 84052 435-646-3721

4. Location of Well (Footage, Sec., T., R., m., or Survey Description)

760 FNL 2032 FEL NW/NE Section 23, T9S R16E

5. Lease Designation and Serial No.

UTU-15855

6. If Indian, Allottee or Tribe Name

NA

7. If Unit or CA, Agreement Designation

N/A

8. Well Name and No.

FEDERAL 2-23-9-16

9. API Well No.

43-013-33003

10. Field and Pool, or Exploratory Area

MONUMENT BUTTE

11. County or Parish, State

DUCHESNE COUNTY, UT.

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other **Permit Extension**

☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Newfield Production Company requests to extend the Permit to Drill this well for one year. The original approval date was 12/12/05 (expiration 12/12/06).

Approved by the
Utah Division of
Oil, Gas and Mining

Date: 11-28-06By: [Signature]**RECEIVED****NOV 28 2006****DIV. OF OIL, GAS & MINING**

14. I hereby certify that the foregoing is true and correct

Signed

Mandie Crozier
Mandie Crozier

Title

Regulatory Specialist

Date

11/27/2006

CC: UTAH DOGM

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

CC: Utah DOGM

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**Application for Permit to Drill
Request for Permit Extension
Validation**

(this form should accompany the Sundry Notice requesting permit extension)

API: 43-013-33003
Well Name: Federal 2-23-9-16
Location: NW/NE Section 23, T9S R16E
Company Permit Issued to: Newfield Production Company
Date Original Permit Issued: 12/12/2005

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.

If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes ☐ No ☐ NA

Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes ☐ No ☒

Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes ☐ No ☒

Have there been any changes to the access route including ownership, or right-of-way, which could affect the proposed location? Yes ☐ No ☒

Has the approved source of water for drilling changed? Yes ☐ No ☒

Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes ☐ No ☒

Is bonding still in place, which covers this proposed well? Yes ☒ No ☐


Signature

11/27/2006

Date

Title: Regulatory Specialist

Representing: Newfield Production Company

RECEIVED
NOV 28 2006
DIV. OF OIL, GAS & MINING

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry a different reservoir.
Use "APPLICATION FOR PERMIT -" for such proposals.

SUBMIT IN TRIPLICATE

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

NEWFIELD PRODUCTION COMPANY

3. Address and Telephone No.

Rt. 3 Box 3630, Myton Utah, 84052 435-646-3721

4. Location of Well (Footage, Sec., T., R., m., or Survey Description)

760 FNL 2032 FEL NW/NE Section 23, T9S R16E

5. Lease Designation and Serial No.

UTU-15855

6. If Indian, Allottee or Tribe Name

NA

7. If Unit or CA, Agreement Designation

N/A

8. Well Name and No.

FEDERAL 2-23-9-16

9. API Well No.

43-013-33003

10. Field and Pool, or Exploratory Area

MONUMENT BUTTE

11. County or Parish, State

DUCHESNE COUNTY, UT.

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other Permit Extension

☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is direction-ally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Newfield Production Company requests to extend the Permit to Drill this well for one year. The original approval date was 9/8/06 (expiration 9/8/07).

CONDITIONS OF APPROVAL ATTACHED

14. I hereby certify that the foregoing is true and correct

Signed

Mandie Crozier

Title

Regulatory Specialist

Date

9/7/2007

CC: UTAH DOGM

(This space for Federal or State office use)

Approved by

Mark Baker

Title

Petroleum Engineer

Date

SEP 24 2007

Conditions of approval, if any:

CC: Utah DOGM

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

RECEIVED

OCT 09 2007

DIV. OF OIL, GAS & MINING

UDOGM

CONDITIONS OF APPROVAL

Newfield Production Co.

Notice of Intent APD Extension

Lease: UTU-15855
Well: Fed 2-23-9-16
Location: NWE Sec 23-T9S-R16E

An extension for the referenced APD is granted with the following conditions:

1. The extension and APD shall expire on 09/08/08
2. No other extension shall be granted.

If you have any other questions concerning this matter, please contact Matt Baker of this office at (435) 781-4490

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

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Use "APPLICATION FOR PERMIT -" for such proposals

5. Lease Designation and Serial No.

UTU-15855

6. If Indian, Allottee or Tribe Name

NA

7. If Unit or CA, Agreement Designation

N/A

8. Well Name and No.

FEDERAL 2-23-9-16

9. API Well No.

43-013-33003

10. Field and Pool, or Exploratory Area

MONUMENT BUTTE

11. County or Parish, State

DUCHESNE COUNTY, UT.

SUBMIT IN TRIPLICATE

1. Type of Well



Oil
Well



Gas
Well



Other

2. Name of Operator

NEWFIELD PRODUCTION COMPANY

3. Address and Telephone No.

Rt. 3 Box 3630, Myton Utah, 84052 435-646-3721

4. Location of Well (Footage, Sec., T., R., m., or Survey Description)

760 FNL 2032 FEL NW/NE Section 23, T9S R16E

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION



Notice of Intent



Subsequent Report



Final Abandonment Notice

TYPE OF ACTION



Abandonment



Recompletion



Plugging Back



Casing Repair



Altering Casing



Other

Permit Extension



Change of Plans



New Construction



Non-Routine Fracturing



Water Shut-Off



Conversion to Injection



Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Newfield Production Company requests to extend the Permit to Drill this well for one year. The original approval date was 12/12/05 (expiration 12/12/07).

This APD is not yet due to expire with the BLM.

Approved by the
Utah Division of
Oil, Gas and Mining

Date: 12-04-07
By: [Signature]

COMPLETED OPERATIONS

Date: 12-12-07

Initials: [Signature]

14. I hereby certify that the foregoing is true and correct

Signed

[Signature]
Mandie Crozier

Title

Regulatory Specialist

Date

11/30/2007

CC: UTAH DOGM

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

CC: Utah DOGM

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



**Application for Permit to Drill
Request for Permit Extension
Validation**

(this form should accompany the Sundry Notice requesting permit extension)

RECEIVED
DEC 03 2007
DIV. OF OIL, GAS & MINING

API: 43-013-33003
Well Name: Federal 2-23-9-16
Location: NW/NE Section 23, T9S R16E
Company Permit Issued to: Newfield Production Company
Date Original Permit Issued: 12/12/2005

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.

If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes ☒ No ☐

Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes ☐ No ☒


Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes ☐ No ☒

Have there been any changes to the access route including ownership, or right-of-way, which could affect the proposed location? Yes ☐ No ☒

Has the approved source of water for drilling changed? Yes ☐ No ☒

Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes ☐ No ☒

Is bonding still in place, which covers this proposed well? Yes ☒ No ☐


Signature

11/30/2007
Date

Title: Regulatory Specialist

Representing: Newfield Production Company

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

Name of Company: NEWFIELD PRODUCTION COMPANY

Well Name: FEDERAL 2-23-9-16

Api No: 43-013-33003 Lease Type: FEDERAL

Section 23 Township 09S Range 16E County DUCHESNE

Drilling Contractor NDSI RIG # NS#1

SPUDDED:

Date 12/06/07

Time 11:15 AM

How DRY

Drilling will Commence: _____

Reported by DELL RAY

Telephone # (435) 828-6110

Date 12/06/07 Signed CHD

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
ENTITY ACTION FORM - FORM 6

OPERATOR: NEWFIELD PRODUCTION COMPANY
ADDRESS: RT. 3 BOX 3830
MAYTON, UT 84052

OPERATOR ACCT. NO. N2695

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
B X	99999	12417	4301333302	Lone Tree FEDERAL 5-22-9-17	SWNW	22	9S	17E	UINTAH	12/3/2007	12/31/07
WELL 1 COMMENTS: GRU											
B X	99999	12276	4301333515	WELLS DRAW X-33-8-16 FED	NWNW	4	9S	16E	UINTAH	12/4/2007	12/31/07
GRU BHL = SW SW Sec 33 T8S 16E											
A	99999	16569	4301333003	FEDERAL 2-23-9-16	SWNW	23	9S	16E	UINTAH	12/7/2007	12/31/07
GRU											
A	99999	16572	4304739291	UTE TRIBAL 1-7-5-2E	NENE NENE	7	5S	2E 28	UINTAH	12/7/2007	12/31/07
GRU											
WELL 5 COMMENTS:											
WELL 5 COMMENTS:											

ACTION CODES (See instructions on back of form)

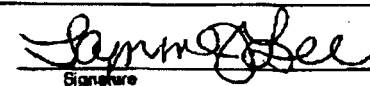
- A - new entity for a new well (single well only)
- B - well to existing entity (group or unit well)
- C - from one existing entity to another existing entity
- D - well from one existing entity to a new entity
- E - other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected

RECEIVED

DEC 11 2007

DIV. OF OIL, GAS & MINING


Signature

Tammi Lee

Production Clerk

12/07/07

Date

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0135
Expires January 31, 2004

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an
abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE. Other Instructions on reverse side

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

NEWFIELD PRODUCTION COMPANY

3a. Address Route 3 Box 3630

Myton, UT 84052

3b. Phone (include area code)

435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

760 FNL 2032 FEL

NWNE Section 23 T9S R16E

5. Lease Serial No.

USA UTU-15855

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or

8. Well Name and No.

Federal 2-23-9-16

9. API Well No.

4301333003

10. Field and Pool, or Exploratory Area

MONUMENT BUTTE

11. County or Parish, State

DUCHESNE, UT

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production(Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug & Abandon	<input type="checkbox"/> Temporarily Abandon	Spud Notice _____
	<input type="checkbox"/> Convert to	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	_____

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleation in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

On 12-13-07 MIRU NDSI spud rig #1. Drill 320' of 12 1/4" hole with air mist. TIH W/7 Jt's 8 5/8" J-55 24# csqn. Set @ 324.81'KB.
On 12-13-07 Cement with 160 sks of Class "G" w/ 2% CaCL+ 1/4# Cello Flake. Mixed @ 15.8 ppg> 1.17 cf/sk yeild. Returned 4 bbls cement to pit.

I hereby certify that the foregoing is true and
correct (Printed/ Typed)

Ray Herrera

Signature



Title

Drilling Foreman

Date

12/13/2007

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by _____

Conditions of approval, if any, are attached. Approval of this notice does not warrant or
certify that the applicant holds legal or equitable title to those rights in the subject lease
which would entitle the applicant to conduct operations thereon.

Title

Date

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United
States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

(Instructions on reverse)

RECEIVED

DEC 18 2007

DIV. OF OIL, GAS & MINING

NEWFIELD PRODUCTION COMPANY - CASING & CEMENT REPORT

8 5/8 CASING SET AT 324.81

LAST CASING 8 5/8" SET AT 324.81
 DATUM 12' KB
 DATUM TO CUT OFF CASING _____
 DATUM TO BRADENHEAD FLANGE _____
 TD DRILLER 320' LOGGER _____
 HOLE SIZE 12 1/4

OPERATOR NewField Production Company
 WELL Federal 2-23-9-16
 FIELD/PROSPECT Monument Butte
 CONTRACTOR & RIG # NDSI NS #1

LOG OF CASING STRING:

LOG OF CASING STRING									
PIECES	OD	ITEM - MAKE - DESCRIPTION		WT / FT	GRD	THREAD	CONDT	LENGTH	
		Shoe Joint 40.80'							
		WHI - 92 csg head				8rd	A	0.95	
7	8 5/8"	Maverick ST&C csg		24#	J-55	8rd	A	312.96	
		GUIDE shoe				8rd	A	0.9	
CASING INVENTORY BAL.		FEET	JTS	TOTAL LENGTH OF STRING				314.81	
TOTAL LENGTH OF STRING		314.81	7	LESS CUT OFF PIECE				2	
LESS NON CSG. ITEMS		1.85		PLUS DATUM TO T/CUT OFF CSG				12	
PLUS FULL JTS. LEFT OUT		0		CASING SET DEPTH				324.81	
TOTAL		312.96	7	} COMPARE					
TOTAL CSG. DEL. (W/O THRDS)		303.8	7						
TIMING		1ST STAGE							
BEGIN RUN CSG.		Spud	12/6/2007	11:15 AM	GOOD CIRC THRU JOB				yes
CSG. IN HOLE			12/7/2007	8:30AM	Bbls CMT CIRC TO SURFACE				4 bbls
BEGIN CIRC			12/13/2007	11:22am	RECIPROCATED PIPE FOR				THRU FT STROKE
BEGIN PUMP CMT			12/13/2007	11:35 AM					N/A
BEGIN DSPL. CMT			12/13/2007	11:48 AM	BUMPED PLUG TO				130 PSI
PLUG DOWN			12/13/2007	11:58 AM					
CEMENT USED		7 CEMENT COMPANY- B. J.							
STAGE	# SX	CEMENT TYPE & ADDITIVES							
1	160	Class "G" w/ 2% CaCL2 + 1/4#/sk Cello-Flake mixed @ 15.8 ppg 1.17 cf/sk yield							
CENTRALIZER & SCRATCHER PLACEMENT				SHOW MAKE & SPACING					
Centralizers - Middle first, top second & third for 3									

COMPANY REPRESENTATIVE Ray Herrera DATE 12/13/2007

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0135
Expires January 31, 2004

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an
abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other Instructions on reverse side

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator
NEWFIELD PRODUCTION COMPANY

3a. Address Route 3 Box 3630
Myton, UT 84052

3b. Phone (include area code)
435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
760 FNL 2032 FEL
NWNE Section 23 T9S R16E

5. Lease Serial No.

UTU-15855

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or

8. Well Name and No.

Federal 2-23-9-16

9. API Well No.

4301333003

10. Field and Pool, or Exploratory Area

MONUMENT BUTTE

11. County or Parish, State

DUCHESNE, UT

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production(Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug & Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to	<input type="checkbox"/> Plug Back	<input checked="" type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Formation water is produced to a steel storage tank. If the production water meets quality guidelines, it is transported to the Ashley, Monument Butte, Jonah, and Beluga water injection facilities by company or contract trucks. Subsequently, the produced water is injected into approved Class II wells to enhance Newfield's secondary recovery project.

Water not meeting quality criteria, is disposed at Newfield's Pariette #4 disposal well (Sec. 7, T9S R19E) or at State of Utah approved surface disposal facilities.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY

I hereby certify that the foregoing is true and correct (Printed/ Typed)

Mandie Crozier

Signature

Title

Regulatory Specialist

Date

02/12/2008

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title

Date

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

(Instructions on reverse)

RECEIVED
FEB 20 2008

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NUMBER:
UTU-15855

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY		7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: Route 3 Box 3630 CITY Myton STATE UT ZIP 84052		8. WELL NAME and NUMBER: Federal 2-23-9-16
4. LOCATION OF WELL: FOOTAGES AT SURFACE: 760 FNL 2032 FEL		9. API NUMBER: 4301333003
OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: NWNE, 23, T9S, R16E		10. FIELD AND POOL, OR WILDCAT: MONUMENT BUTTE
		COUNTY: DUCHESNE
		STATE: UT

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARITLY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of Work Completion: 02/11/2008	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/STOP)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: - Weekly Status Report
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The above mentioned well went on production 2/11/08. See attached daily activity report.

NAME (PLEASE PRINT) <u>Tammi Lee</u>	TITLE <u>Production Clerk</u>
SIGNATURE 	DATE <u>02/29/2008</u>

(This space for State use only)

RECEIVED
MAR 03 2008
DIV. OF OIL, GAS & MINING

Daily Activity Report

Format For Sundry

FEDERAL 2-23-9-16**12/1/2007 To 4/29/2008****1/31/2008 Day: 1****Completion**

Rigless on 1/30/2008 - Install 5M frac head. NU 6" 5M Cameron BOP. RU H/O truck & pressure test casing, blind rams, frac head & casing valves to 4500 psi. RU Perforators LLC WLT w/ mast & run CBL under pressure. WLTD @ 5738' & cement top @ 137'. Perforate stage #1. A1 sds @ 4910-4938' w/ 3 1/8" slick guns (19 gram, .49" HE, 120°, 21.92" pen, EXP-3319-331 Titan) w/ 4 spf for total of 112 shots. 138 BWTR. SIFN.

2/6/2008 Day: 2**Completion**

Rigless on 2/5/2008 - RU BJ Services "Ram Head" frac flange. RU BJ & frac A1 sds, stage #1 down casing w/ #'s of 20/40 sand in bbls of Lightning 17 frac fluid. Open well & took 19 bbls to load casing. Perfs broke down @ 2501 back to 580 psi. Pump 30 gals of Techna Hib chemical. Treated @ ave pressure of 1318 @ ave rate of 23.6 bpm w/ 8 ppg of sand. Spot 12 bbls of 15% HCL acid in flush for next stage. ISIP was 1809. 1328 bbls EWTR. Leave pressure on well. RU Perforators LLC WLT, crane & lubricator. RIH w/ Weatherford 5-1/2" (6K) composite flow through frac plug & 8' perf gun.. Set plug @ 4730'. Perforate C sds @ 4621-29' w/ 3-1/8" Slick Guns (19 gram, .49" HE, 120°) w/ 4 spf for total of 32 shots. SIFN.

2/7/2008 Day: 3**Completion**

Rigless on 2/6/2008 - Thaw well out. Open well w/ 50 psi on casing. RU BJ & perfs won't break down. RIH & spot 10 gals of 15% HCL acid on perfs. RU BJ & frac stage #2 down casing w/ 14,890#'s of 20/40 sand in 264 bbls of Lightning 17 frac fluid. Open well w/ 160 psi on casing. Perfs broke down @ 3273 psi. Pump 30 gals of Techna Hib chemical. Treated @ ave pressure of 1847 @ ave rate of 23.5 bpm w/ 6.5 ppg of sand. Spot 12 bbls of 15% HCL acid in flush for next stage. ISIP was 1806. 1592 bbls EWTR. Leave pressure on well. RU WLT. RIH w/ frac plug & 7' perf gun. Set plug @ 4550'. Perforate D1 sds @ 4493-4500' w/ 4 spf for total of 27 shots. RU BJ & frac stage #3 w/ 9119#'s of 20/40 sand in 237 bbls of Lightning 17 frac fluid. Open well w/ 1360 psi on casing. Perfs broke down @ 3062 psi. Pump 30 gals of Techna Hib chemical. Treated @ ave pressure of 2210 @ ave rate of 23.5 bpm w/ 6.5 ppg of sand. ISIP was 2088. 1929 bbls EWTR. RD BJ & WLT. Flow well back. Well flowed for 1.5 hours & died w/ 100 bbls rec'd. SIFN.

2/8/2008 Day: 4**Completion**

Western #4 on 2/7/2008 - MIRU Western #2. Thaw wellhead & BOP W/ HO trk. Bleed pressure off well. Rec est 15 BTF. ND Cameron BOP & 5M frac head. Install 3M production tbg head & NU Weatherford Schaeffer BOP. Talley, drift, PU & TIH W/ used Weatherford 4 3/4" "Chomp" bit, bit sub & used/inspected YB 2 7/8 8rd 6.5# J-55 tbg. Tag fill @ 4423'. Tbg displaced 10 BW on TIH. RU power swivel. C/O sd & drill out composite bridge plugs as follows (using conventional circulation): sd @ 4423'. plug @ 4550' in 31 minutes; sd @ 4658', plug @ 4730' in 15 minutes. Hang back swivel & con't PU tbg. Tag fill @ 5567'. PU swivel. Drill plug remains & sd to 5757' (lack 30' f/ FC depth of 5787'). Circ hole clean. Lost est 80 BW during cleanout. RD swivel & pull EOT to 5664'. RU swab equipment. IFL @ sfc. Made 4 swb runs rec 40 BW. FFL @ 700'. SIFN W/ est 1844 BWTR.

2/9/2008 Day: 5**Completion**

Western #4 on 2/8/2008 - Thaw wellhead, BOP & tbg stump W/ HO trk. Bleed gas off annulus. Con't swabbing well for cleanup. IFL @ 900'. Made 10 add'l swb runs rec 80 BTF W/ light gas, tr oil & no sd. FFL @ 2000'. TIH W/ tbg. Tag @ 5757' (no new fill). Circ hole W/ clean wtr. Lost est 45 BW & rec tr oil. LD excess tbg. TOH W/ tbg--LD bit. TIH W/ BHA & production tbg as follows: 2 7/8 NC, 2 jts tbg, SN, 2 jts tbg, new CDI 5 1/2" TA (45K) & 154 jts 2 7/8 8rd 6.5# YB tbg. ND BOP. Set TA @ 4900' W/ SN @ 4966' & EOT @ 5031'. Land tbg W/ 16,000# tension. NU wellhead. Flush tbg

W/ 60 BW (returned same amt). PU & TIH W/ pump and "B" grade rod string to 2450'. PU polished rod & SIFN. Est 1809 BWTR.

2/12/2008 Day: 6

Completion

Western #4 on 2/11/2008 - Thaw wellhead W/ HO trk. LD polished rod. Con't PU & TIH W/ pump and "B" grade rod string f/ 2450' (complete as follows): new CDI 2 1/2" X 1 1/2" X 18' RHAC pump, 6-1 1/2" weight rods, 20-3/4" scraped rods, 72-3/4" plain rods, 100-3/4" scraped rods, 1-8', 1-6', 1-4' & 1-2' X 3/4" pony rods (A grade) and 1 1/2" X 26' polished rod (A grade). Seat pump and RU pumping unit. W/ tbg full, pressure test tbg & pump to 200 psi. Stroke pump up W/ unit to 800 psi. Good pump action. RDMOSU. Est 1809 BWTR. Place well on production @ 1:00 PM 2/11/2008 W/ 102" SL @ 5 SPM. FINAL REPORT!!

Pertinent Files: [Go to File List](#)

(See other instructions on reverse side)

OMB NO. 1004-0137

Expires: February 28, 1995

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WORK

OIL
WELLGAS
WELL

DRY



Other

1b. TYPE OF WELL

NEW
WELLWORK
OVER

DEEPEN

PLUG
BACKDIFF
RESVR.

Other

2. NAME OF OPERATOR

Newfield Exploration Company

3. ADDRESS AND TELEPHONE NO.

1401 17th St. Suite 1000 Denver, CO 80202

4. LOCATION OF WELL (Report locations clearly and in accordance with any State requirements.)*

At Surface

760' FNL & 2032' FEL NWNE

At top prod. Interval reported below

At total depth

14. API NO.

43-013-33003

DATE ISSUED

12/12/07

12. COUNTY OR PARISH

DUCHESE

13. STATE

UT

15. DATE SPUDDED

12/6/07

16. DATE T.D. REACHED

12/22/07

17. DATE COMPL. (Ready to prod.)

2/11/08

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*

5678' GL 5690' KB

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD

5835'

21. PLUG BACK T.D., MD & TVD

5757'

22. IF MULTIPLE COMPL.,
HOW MANY*23. INTERVALS
DRILLED BY

----->

ROTARY TOOLS

X

CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION--TOP, BOTTOM, NAME (MD AND TVD)*

GREEN RIVER 4493'-4938'

25. WAS DIRECTIONAL
SURVEY MADE

No

26. TYPE ELECTRIC AND OTHER LOGS RUN

Dual Induction Guard, SP, Compensated Density, Compensated Neutron, GR, Caliper, Cement Bond Log

27. WAS WELL CORED

No

23. CASING RECORD (Report all strings set in well)

CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
8-5/8" - J-55	24#	324.81'	12 1/4	To surface w/160sx of class "G" cement	
5-1/2" J-55	15.5#	5831.23'	7 7/8	300sx of Premlite II & 400sx of 50/50 poz	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-7/8"	EOT @ 5031'	TA @ 4900'

30. TUBING RECORD

31. PERFORATION RECORD (Interval, size and number)

INTERVAL

SIZE

SPF/NUMBER

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)

AMOUNT AND KIND OF MATERIAL USED

A1 sds 4910'-4938'	.49"	4/112	4910'-4938'	Frac w/170350#s of 20/40 sand in 1190 bbls of fluid
C sds 4621'-4629'	.49"	4/32	4621'-4629'	Frac w/ 14890#s of 20/40 sand in 264 bbls of fluid
D1 sds 4493'-4500'	.49"	4/28	4493'-4500'	Frac w/ 9119#s of 20/40 sand in 237 bbls of fluid

33.* PRODUCTION

DATE FIRST PRODUCTION 2/11/08		PRODUCTION METHOD (Flowing, gas lift, pumping--size and type of pump) 2 1/2" X 1 1/2" X 18' RHAC pump w/ sm plunger					WELL STATUS (Producing or shut-in) PRODUCING	
DATE OF TEST 10 day ave	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD ----->	OIL--BBL.S. 342	GAS--MCF. 590	WATER--BBL. 368		GAS-OIL RATIO 433
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE ----->	OIL--BBL.	GAS--MCF.	WATER--BBL.		OIL GRAVITY-API (CORR.)	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

Used for Fuel

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

TITLE

Production Technician

Tammi Lee

RECEIVED
MAR 12 2008

DATE 3/11/2008

TL

*(See Instructions and Spaces for Additional Data on Reverse Side)

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals, and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries);	38. GEOLOGIC MARKERS				
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	TOP	
				NAME	MEAS. DEPTH
					TRUE VERT. DEPTH
			Well Name Federal 2-23-9-16	Garden Gulch Mkr	3468'
				Garden Gulch 1	3676'
				Garden Gulch 2	3791'
				Point 3 Mkr	4014'
				X Mkr	4296'
				Y-Mkr	4333'
				Douglas Creek Mkr	4452'
				BiCarbonate Mkr	4685'
				B Limestone Mkr	0
				Castle Peak	5293'
				Basal Carbonate	5745'
				Wasatch	0
				Total Depth (Loggers)	5830'

NEWFIELD



Well Name: Federal 2-23-9-16

LOCATION: S23, T9S, R16E

COUNTY/STATE: Duchesne

API: 4301333003

Spud Date: 12-6-07

TD: 5835'

CSG: 12-24-07

POP: 2-11-08

DATE	HRS	Oil (bbls)	Water (bbls)	Recovered Water (bbls)	Gas (mcf)	Casing Pressure (psi)	SPM	Comments
2/11/2008				1809				POP @ 1:00 P.M. w/ 102" SL @ 5 SPM. 1809 Total water to recover.
2/12/2008	12	160	0	1809	3	10	4 3/4	
2/13/2008	24	5	31	1778	0	45	4 3/4	
2/14/2008	12	28	0	1778	9	30	5 3/4	Down - weather
2/15/2008	24	33	10	1768	0	50	5 3/4	
2/16/2008	24	5	9	1759	0	25	6	
2/17/2008	24	5	9	1750	0	65	6	
2/18/2008	24	3	0	1750	0	35	6	
2/19/2008	24	3	0	1750	0	20	6	
2/20/2008	24	7	12	1738	0	30	6	
2/21/2008	24	87	18	1720	70	30	6 3/4	
2/22/2008	24	45	58	1662	63	30	6 3/4	
2/23/2008	16	22	2	1660	59	30	6 3/4	Down - weather
2/24/2008	16	0	73	1587	102	30	6 3/4	
2/25/2008	24	62	40	1547	88	50	6 3/4	
2/26/2008	24	85	42	1505	76	50	6 3/4	
2/27/2008	0	0	0	1505	13	400	6	Clutched for water transfer
2/28/2008	0	0	0	1505	11	150	6	POP @ 11:30 today. Was Down waiting on water haul
2/29/2008	12	92	50	1455	52	50	5 3/4	Down - water haul
3/1/2008	24	9	106	1349	56	55	5 3/4	
3/2/2008	24	35	23	1326	36	45	5 3/4	
3/3/2008	24	25	42	1284	38	150	5 3/4	
3/4/2008	0	0	0	1284	25	350	5 3/4	clutched - oil sale, bad road hauler couldn't make it to location
3/5/2008	0	0	0	1284	0	550	0	Clutched - oil sales
3/6/2008	24	59	32	1252	101	110	4 1/2	
3/7/2008	24	57	48	1204	53	170	4 1/2	
3/8/2008	24	52	32	1172	60	150	4 1/2	
3/9/2008	24	47	32	1140	128	150	4 1/2	
3/10/2008	24	58	53	1087	93	150	4 1/2	
3/11/2008				1087				
3/12/2008				1087				
3/13/2008				1087				
		984	722		1136			

47478



GARY R. HERBERT
Governor

SPENCER J. COX
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

UNDERGROUND INJECTION CONTROL PERMIT

Cause No. UIC-415

Operator: Newfield Production Company
Well: Federal 2-23-9-16
Location: Section 23, Township 9 South, Range 16 East
County: Duchesne
API No.: 43-013-33003
Well Type: Enhanced Recovery (waterflood)

Stipulations of Permit Approval

1. Approval for conversion to Injection Well issued on January 27, 2014.
2. Maximum Allowable Injection Pressure: 1,776 psig
3. Maximum Allowable Injection Rate: (restricted by pressure limitation)
4. Injection Interval: Green River Formation (3,789' – 5,757').
5. Any subsequent wells drilled within a ½ mile radius of this well shall have production casing cement brought up to or above the top of the unitized interval for the Greater Monument Butte Unit.

Approved by:

(for)

John Rogers
Associate Director

Date

4/9/2014

JR/MLR/js

cc: Bruce Suchomel, Environmental Protection Agency
Bureau of Land Management, Verna
Jill Loyle, Newfield Production Company, Denver
Newfield Production Company, Myton
Duchesne County
Well File

N:\O&G Reviewed Docs\ChronFile\UIC





GARY R. HERBERT
Governor

GREGORY S. BELL
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

January 27, 2014

Newfield Production Company
1001 Seventeenth Street, Suite 2000
Denver, CO 80202

Subject: Greater Monument Butte Unit Well: Federal 2-23-9-16, Section 23, Township 9 South, Range 16 East, SLBM, Duchesne County, Utah, API Well # 43-013-33003


Ladies and Gentlemen:

Pursuant to Utah Admin. Code R649-5-3-3, the Division of Oil, Gas and Mining (the "Division") issues its administrative approval for conversion of the referenced well to a Class II injection well. Accordingly, the following stipulations shall apply for full compliance with this approval:

1. Compliance with all applicable requirements for the operation, maintenance and reporting for Underground Injection Control ("UIC") Class II injection wells pursuant to Utah Admin. Code R649-1 et seq.
2. Conformance with all conditions and requirements of the complete application submitted by Newfield Production Company.
3. A casing/tubing pressure test shall be conducted prior to commencing injection.
4. Pressure shall be monitored between the surface casing and the production casing on a regular basis. Any pressure changes observed shall be reported to the Division immediately.
5. The top of the injection interval shall be limited to a depth no higher than 3,789 feet in the Federal 2-23-9-16 well.

A final approval to commence injection will be issued upon satisfactory completion of the listed stipulations. If you have any questions regarding this approval or the necessary requirements, please contact Mark Reinbold at 801-538-5333 or Brad Hill at 801-538-5315.

Sincerely,


John Rogers
Associate Director

JR/MLR/js

cc: Bruce Suchomel, Environmental Protection Agency
Bureau of Land Management, Vernal
Duchesne County
Newfield Production Company, Myton
Well File

N:\O&G Reviewed Docs\ChronFile\UIC



**DIVISION OF OIL, GAS AND MINING
UNDERGROUND INJECTION CONTROL PROGRAM
PERMIT
STATEMENT OF BASIS**

Applicant: Newfield Production Company **Well:** Federal 2-23-9-16

Location: 23/9S/16E **API:** 43-013-33003

Ownership Issues: The proposed well is located on BLM land. The well is located in the Greater Monument Butte Unit. Lands in the one-half mile radius of the well are administered by the BLM. The Federal Government is the mineral owner within the area of review (AOR). Newfield and other various individuals hold the leases in the unit. Newfield has provided a list of all surface, mineral and lease holders in the half-mile radius. Newfield is the operator of the Greater Monument Butte Unit. Newfield has submitted an affidavit stating that all owners and interest owners have been notified of their intent.

Well Integrity: The proposed well has surface casing set at 325 feet and has a cement top at the surface. A 5½ inch production casing is set at 5,831 feet. The cement bond log is somewhat problematic but appears to demonstrate adequate bond in this well up to about 2,932 feet or higher. A 2 7/8 inch tubing with a packer is proposed to be set at 4,443 feet. Higher perforations will be opened at a later date. A mechanical integrity test will be run on the well prior to injection. At the time of this revision (4/8/2014), there are 6 producing wells, 7 injection wells, 1 shut-in well, 1 temporarily abandoned well, and 1 P/A well in the AOR. In addition, there is 1 approved surface location inside the AOR for a directional well to be drilled to a bottom hole location outside the AOR and 1 approved surface location outside the AOR for a directional well to a bottom hole location inside the AOR. All existing wells have evidence of adequate casing and cement for the proposed injection interval.

Ground Water Protection: As interpreted from the Utah Geological Survey's DOE Project-Uinta Basin Water Draft Map (Paul B. Anderson, December 2, 2011), the base of moderately saline water (3000-10,000 mg/l TDS) is at a depth of approximately 2200 feet. Injection shall be limited to the interval between 3,789 feet and 5,757 feet in the Green River Formation. Information submitted by Newfield indicates that the fracture gradient for the 2-23-9-16 well is 0.82 psi/ft., which was the lowest reported fracture gradient for the injection zone. The resulting minimum fracture pressure for the proposed injection interval is 1,776 psig. The requested maximum pressure is 1,776 psig. The anticipated average injection pressure is 1100 psig. Injection at this pressure should not initiate any new fractures or propagate existing fractures in the adjacent confining intervals. Any ground water present should be adequately protected.

Federal 2-23-9-16

page 2

Oil/Gas& Other Mineral Resources Protection: The Board of Oil, Gas & Mining approved the Greater Monument Butte Unit on December 1, 2009. Correlative rights issues were addressed at this time. Previous reviews in this area indicate that other mineral resources in the area have been protected or are not at issue.

Bonding: Bonded with the BLM

Actions Taken and Further Approvals Needed: A notice of agency action has been sent to the Salt Lake Tribune and the Uinta Basin Standard. A casing/tubing pressure test will be required prior to injection. It is recommended that approval of this application be granted.

Note: Applicable technical publications concerning water resources in the general vicinity of this project have been reviewed and taken into consideration during the permit review process.

Reviewer(s): Mark Reinbold Date: 1/17/2014 (revised 4/8/2014)

4770 S. 5600 W.
P.O. BOX 704005
WEST VALLEY CITY, UTAH 84170
FED. TAX I.D.# 87-0217663
801-204-6910

The Salt Lake Tribune

MEDIA

Deseret News

PROOF OF PUBLICATION

CUSTOMER'S COPY

CUSTOMER NAME AND ADDRESS		ACCOUNT NUMBER	DATE
DIV OF OIL-GAS & MINING, Rose Nolton 1594 W NORTH TEMP #1210 P.O. BOX 145801 SALT LAKE CITY, UT 84114		90014002352 BEFORE THE DIVISION OF OIL, GAS AND MINING DEPARTMENT OF NATURAL RESOURCES STATE OF UTAH NOTICE OF AGENCY ACTION CAUSE NO. UIC-415	12/13/2013
ACCOUNT NAME		THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED MATTER.	
DIV OF OIL-GAS & MINING,		Notice is hereby given that the Division of Oil, Gas and Mining (the "Division") is commencing an informal adjudicative proceeding to consider the application of Newfield Production Company, 1001 17th Street, Suite 2000, Denver, Colorado 80202, telephone 303-893-0102, for administrative approval of the following wells located in Duchesne County, Utah, for conversion to Class II injection wells:	
TELEPHONE	ADORDER	Greater Monument Butte Unit: State 2-16-9-16 well located in NW/4 NE/4, Section 16, Township 9 South, Range 16 East API 43-013-33846 State 13-16-9-16 well located in SW/4 SW/4, Section 16, Township 9 South, Range 16 East API 43-013-33853 Castle Peak 32-16 well located in SW/4 NE/4, Section 16, Township 9 South, Range 16 East API 43-013-30650 Federal 10-17-9-16 well located in NW/4 SE/4, Section 17, Township 9 South, Range 16 East API 43-013-33033 Federal 12-17-9-16 well located in NW/4 SW/4, Section 17, Township 9 South, Range 16 East API 43-013-33035 Federal 16-18-9-16 well located in SE/4 SE/4, Section 18, Township 9 South, Range 16 East API 43-013-32922 Federal 2-19-9-16 well located in NW/4 NE/4, Section 19, Township 9 South, Range 16 East API 43-013-33063 Federal 6-19-9-16 well located in SE/4 NW/4, Section 19, Township 9 South, Range 16 East API 43-013-33100 Federal 12-19-9-16 well located in NW/4 SW/4, Section 19, Township 9 South, Range 16 East API 43-013-33102 Federal 14-19-9-16 well located in SE/4 SW/4, Section 19, Township 9 South, Range 16 East API 43-013-33161 Federal 16-19-9-16 well located in SE/4 SE/4, Section 19, Township 9 South, Range 16 East API 43-013-33163 Federal 8-20-9-16 well located in SE/4 NE/4, Section 20, Township 9 South, Range 16 East API 43-013-33107 Federal 3-21-9-16 well located in NE/4 NW/4, Section 21, Township 9 South, Range 16 East API 43-013-33019 Federal 4-21-9-16 well located in NW/4 NW/4, Section 21, Township 9 South, Range 16 East API 43-013-33069 Federal 8-23-9-16 well located in SE/4 NE/4, Section 21, Township 9 South, Range 16 East API 43-013-33023 Federal 2-23-9-16 well located in NW/4 NE/4, Section 23, Township 9 South, Range 16 East API 43-013-33003 Castle Peak Federal 6-23 well located in SE/4 NW/4, Section 23, Township 9 South, Range 16 East API 43-013-30873 Federal 8-23-9-16 well located in SE/4 NE/4, Section 23, Township 9 South, Range 16 East API 43-013-32961 Federal 14-24-9-16 well located in SE/4 SW/4, Section 24, Township 9 South, Range 16 East API 43-013-33343	
SCHEDULE		The proceeding will be conducted in accordance with Utah Admin. R649-10, Administrative Procedures.	
Start 12/13/2013	End 12/13/2013	Selected zones in the Green River Formation will be used for water injection. The maximum requested injection pressures and rates will be determined based on fracture gradient information submitted by Newfield Production Company.	
CUST. REF. NO.		Any person desiring to object to the application or otherwise intervene in the proceeding, must file a written protest or notice of intervention with the Division within fifteen days following publication of this notice. The Division's Presiding Officer for the proceeding is Brad Hill, Permitting Manager, at P.O. Box 145801, Salt Lake City, UT 84114-5801, phone number (801) 538-5340. If such a protest or notice of intervention is received, a hearing will be scheduled in accordance with the aforementioned administrative procedural rules. Protestants and/or interveners should be prepared to demonstrate at the hearing how this matter affects their interests.	
Newfield Cause UIC-415		Dated this 11th day of December, 2013.	
CAPTION		STATE OF UTAH DIVISION OF OIL, GAS & MINING /s/ Brad Hill Permitting Manager	
BEFORE THE DIVISION OF OIL, GAS AND MINING DEPARTMENT		UPAXLP	
SIZE		923758	
94	Lines	3.00	
TIMES			
3			
MISC. CHARGES			
RECEIVED			
DEC 20 2013			

DIV. OF OIL, GAS & MINING

AFFIDAVIT OF PUBLICATION

AS NEWSPAPER AGENCY COMPANY, LLC dba MEDIAONE OF UTAH LEGAL BOOKER, I C
BEFORE THE DIVISION OF OIL, GAS AND MINING DEPARTMENT OF NATURAL RESOURCES
CAUSE NO. UIC-415 IN THE MATTER OF THE APPLICATION FOR DIV OF OIL-GAS & MINING
COMPANY, LLC dba MEDIAONE OF UTAH, AGENT FOR THE SALT LAKE TRIBUNE AND D
ENGLISH LANGUAGE WITH GENERAL CIRCULATION IN UTAH, AND PUBLISHED IN SALT
NOTICE IS ALSO POSTED ON UTAHLEGALS.COM ON THE SAME DAY AS THE FIRST NEWSPAPER PUBLICATION DATE AND REMAINS ON
UTAHLEGALS.COM INDEFINITELY COMPLIES WITH UTAH DIGITAL SIGNATURE ACT UTAH CODE 46-2-101; 46-3-104.

PUBLISHED ON Start 12/13/2013 End 12/13/2013

SIGNATURE

DATE 12/13/2013

THIS IS NOT A STATEMENT BUT A "PROOF OF PUBLICATION"
PLEASE PAY FROM BILLING STATEMENT

2210/REC/131




VIRGINIA CRAFT
Notary Public, State of Utah
Commission Expires
January 12, 2014

NOTARY SIGNATURE

AFFIDAVIT OF PUBLICATION

County of Duchesne,
STATE OF UTAH

I, Kevin Ashby on oath, say that I am the PUBLISHER of the Uintah Basin Standard, a weekly newspaper of general circulation, published at Roosevelt, State and County aforesaid, and that a certain notice, a true copy of which is hereto attached, was published in the full issue such newspaper for 1 consecutive issues, and that the first publication was on the 17 day of December, 20 13, and that the last publication of such notice was in the issue of such newspaper dated the 17 day of December, 20 13, and that said notice was published on Utahlegals.com on the same day as the first newspaper publication and the notice remained on Utahlegals.com until the end of the scheduled run.

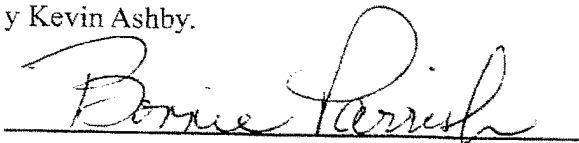


Publisher

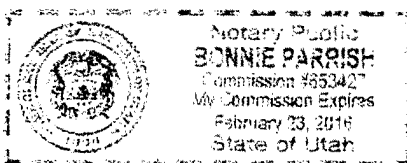
Subscribed and sworn to before me on this

23 day of December, 20 13

by Kevin Ashby.



Notary Public



NOTICE OF AGENCY ACTION CAUSE NO. UIC-415

BEFORE THE
DIVISION OF OIL,
GAS AND MINING,
DEPARTMENT OF
NATURAL RE-
SOURCES, STATE
OF UTAH.

IN THE MATTER
OF THE APPLICA-
TION OF NEW-
FIELD PRODUCTION COMPANY
FOR ADMINISTRATIVE APPROVAL
OF CERTAIN
WELLS LOCATED
IN SECTIONS 16,
17, 18, 19, 20, 21, 23,
and 24, TOWNSHIP
9 SOUTH, RANGE
16 EAST, DUCHESNE COUNTY,
UTAH, AS CLASS
II INJECTION
WELLS.

THE STATE OF
UTAH TO ALL PER-
SONS INTERESTED
IN THE ABOVE
ENTITLED MAT-
TER.

Notice is hereby
given that the Divi-
sion of Oil, Gas and
Mining (the "Divi-
sion") is commencing
an informal adjudica-
tive proceeding
to consider the ap-
plication of Newfield
Production Company,
1001 17th Street,

Continued on next page

Continued from
previous page

Suite 2000, Denver,
Colorado 80202, tele-
phone 303-893-0102,
for administrative ap-
proval of the following
wells located in Duch-
esne County, Utah, for
conversion to Class II
injection wells:

'Greater Monument
Butte Unit:

State 2-16-9-16 well
located in NW/4 NE/4,
Section 16, Township 9
South, Range 16 East
API 43-013-33846

State 13-16-9-16
well located in SW/4
SW/4, Section 16,
Township 9 South,
Range 16 East
API 43-013-33853

Castle Peak 32-16
well located in SW/4
NE/4, Section 16,
Township 9 South,
Range 16 East
API 43-013-30650

Federal 10-17-9-
16 well located in
NW/4 SE/4, Section
17, Township 9 South,
Range 16 East
API 43-013-33033

Federal 12-17-9-
16 well located in
NW/4 SW/4, Section
17, Township 9 South,
Range 16 East
API 43-013-33035

Federal 16-18-9-
16 well located in
SE/4 SE/4, Section
18, Township 9 South,
Range 16 East
API 43-013-32922

Federal 2-19-9-16
well located in NW/4
NE/4, Section 19,
Township 9 South,
Range 16 East
API 43-013-33063

Federal 6-19-9-16
well located in SE/4
NW/4, Section 19,
Township 9 South,
Range 16 East
API 43-013-33100

Federal 12-19-9-
16 well located in
NW/4 SW/4, Section
19, Township 9 South,
Range 16 East
API 43-013-33102

Federal 14-19-9-
16 well located in
SE/4 SW/4, Section
19, Township 9 South,

Any person desir-
ing to object to the
application or oth-
erwise intervene
in the proceeding, mu-
st file a written pro-
test or notice of inter-
vention with the Divi-
sion within fifteen da-
ys following publica-
tion of this notice. The
Division's Presiding C-
ler for the proceedi-
ng is Brad Hill, Permitt-
ing Manager, at P.O. B-
145801, Salt Lake Ci-
ty, UT 84114-5801, pho-
ne number (801) 533-
5340. If such a pro-
test or notice of inter-
vention is received, a he-
aring will be schedul-
ed in accordance wi-
th the aforementioned
administrative pr-
ocedural rules. Pro-
testants and/or inter-
veners should be prepar-
ed to demonstrate at a
hearing how this mat-
ter affects their interest.

Dated this 11th day
of December, 2013
STATE OF UTAH
DIVISION OF OIL
& GAS & MINING

/s/
Brad Hill
Permitting Manager
Published in the
Uintah Basin Standard
December 17, 2013

RECEIVED

DEC 24 2013

DIV OF OIL GAS & MINING

Federal 14-19-9-

16 well located in
SE/4 SW/4, Section
19, Township 9 South,
Range 16 East

API 43-013-33161

Federal 16-19-9-

16 well located in
SE/4 SE/4, Section
19, Township 9 South,
Range 16 East

API 43-013-33163

Federal 8-20-9-16
well located in SE/4
NE/4, Section 20,
Township 9 South,
Range 16 East

API 43-013-33107

Federal 3-21-9-16
well located in NE/4
NW/4, Section 21,
Township 9 South,
Range 16 East

API 43-013-33019

Federal 4-21-9-16
well located in NW/4
NW/4, Section 21,
Township 9 South,
Range 16 East

API 43-013-33069

Federal 8-21-9-16
well located in SE/4
NE/4, Section 21,
Township 9 South,
Range 16 East

API 43-013-33023

Federal 2-23-9-16
well located in NW/4
NE/4, Section 23,
Township 9 South,
Range 16 East

API 43-013-33003

Castle Peak Federal
6-23 well located in
SE/4 NW/4, Section
23, Township 9 South,
Range 16 East

API 43-013-30873

Federal 8-23-9-16
well located in SE/4
NE/4, Section 23,
Township 9 South,
Range 16 East

API 43-013-32961

Federal 14-24-9-
16 well located in
SE/4 SW/4, Section
24, Township 9 South,
Range 16 East

API 43-013-33343

The proceeding will
be conducted in ac-
cordance with Utah
Admin. R649-10, Ad-
ministrative Proce-
dures.

Selected zones in the
Green River Formation
will be used for water
injection. The maxi-
mum requested injec-
tion pressures and rates
will be determined
based on fracture gra-
dient information sub-
mitted by Newfield
Production Company.

BEFORE THE DIVISION OF OIL, GAS AND MINING
DEPARTMENT OF NATURAL RESOURCES
STATE OF UTAH
NOTICE OF AGENCY ACTION
CAUSE NO. UIC-415

IN THE MATTER OF THE APPLICATION OF NEWFIELD PRODUCTION COMPANY FOR ADMINISTRATIVE APPROVAL OF CERTAIN WELLS LOCATED IN SECTIONS 16, 17, 18, 19, 20, 21, 23, and 24, TOWNSHIP 9 SOUTH, RANGE 16 EAST, DUCHESNE COUNTY, UTAH, AS CLASS II INJECTION WELLS.

THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED MATTER.

Notice is hereby given that the Division of Oil, Gas and Mining (the "Division") is commencing an informal adjudicative proceeding to consider the application of Newfield Production Company, 1001 17th Street, Suite 2000, Denver, Colorado 80202, telephone 303-893-0102, for administrative approval of the following wells located in Duchesne County, Utah, for conversion to Class II injection wells:

Greater Monument Butte Unit:

State 2-16-9-16 well located in NW/4 NE/4, Section 16, Township 9 South, Range 16 East
API 43-013-33846
State 13-16-9-16 well located in SW/4 SW/4, Section 16, Township 9 South, Range 16 East
API 43-013-33853
Castle Peak 32-16 well located in SW/4 NE/4, Section 16, Township 9 South, Range 16 East
API 43-013-30650
Federal 10-17-9-16 well located in NW/4 SE/4, Section 17, Township 9 South, Range 16 East
API 43-013-33033
Federal 12-17-9-16 well located in NW/4 SW/4, Section 17, Township 9 South, Range 16 East
API 43-013-33035
Federal 16-18-9-16 well located in SE/4 SE/4, Section 18, Township 9 South, Range 16 East
API 43-013-32922
Federal 2-19-9-16 well located in NW/4 NE/4, Section 19, Township 9 South, Range 16 East
API 43-013-33063
Federal 6-19-9-16 well located in SE/4 NW/4, Section 19, Township 9 South, Range 16 East
API 43-013-33100
Federal 12-19-9-16 well located in NW/4 SW/4, Section 19, Township 9 South, Range 16 East
API 43-013-33102
Federal 14-19-9-16 well located in SE/4 SW/4, Section 19, Township 9 South, Range 16 East
API 43-013-33161
Federal 16-19-9-16 well located in SE/4 SE/4, Section 19, Township 9 South, Range 16 East
API 43-013-33163
Federal 8-20-9-16 well located in SE/4 NE/4, Section 20, Township 9 South, Range 16 East
API 43-013-33107
Federal 3-21-9-16 well located in NE/4 NW/4, Section 21, Township 9 South, Range 16 East
API 43-013-33019
Federal 4-21-9-16 well located in NW/4 NW/4, Section 21, Township 9 South, Range 16 East
API 43-013-33069
Federal 8-21-9-16 well located in SE/4 NE/4, Section 21, Township 9 South, Range 16 East
API 43-013-33023
Federal 2-23-9-16 well located in NW/4 NE/4, Section 23, Township 9 South, Range 16 East
API 43-013-33003

Castle Peak Federal 6-23 well located in SE/4 NW/4, Section 23, Township 9 South, Range 16 East
API 43-013-30873

Federal 8-23-9-16 well located in SE/4 NE/4, Section 23, Township 9 South, Range 16 East
API 43-013-32961

Federal 14-24-9-16 well located in SE/4 SW/4, Section 24, Township 9 South, Range 16 East
API 43-013-33343

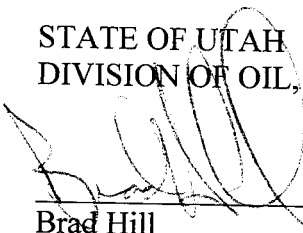
The proceeding will be conducted in accordance with Utah Admin. R649-10, Administrative Procedures.

Selected zones in the Green River Formation will be used for water injection. The maximum requested injection pressures and rates will be determined based on fracture gradient information submitted by Newfield Production Company.

Any person desiring to object to the application or otherwise intervene in the proceeding, must file a written protest or notice of intervention with the Division within fifteen days following publication of this notice. The Division's Presiding Officer for the proceeding is Brad Hill, Permitting Manager, at P.O. Box 145801, Salt Lake City, UT 84114-5801, phone number (801) 538-5340. If such a protest or notice of intervention is received, a hearing will be scheduled in accordance with the aforementioned administrative procedural rules. Protestants and/or interveners should be prepared to demonstrate at the hearing how this matter affects their interests.

Dated this 11th day of December, 2013.

STATE OF UTAH
DIVISION OF OIL, GAS & MINING

A handwritten signature in dark ink, appearing to read 'Brad Hill', is written over a horizontal line.

Brad Hill
Permitting Manager

Newfield Production Company

**STATE 2-16-9-16, STATE 13-16-9-16, CASTLE PEAK 32-16,
FEDERAL 10-17-9-16, FEDERAL 12-17-9-16, FEDERAL 16-18-9-16,
FEDERAL 2-19-9-16, FEDERAL 6-19-9-16, FEDERAL 12-19-9-16,
FEDERAL 14-19-9-16, FEDERAL 16-19-9-16, FEDERAL 8-20-9-16,
FEDERAL 3-21-9-16, FEDERAL 4-21-9-16, FEDERAL 8-21-9-16,
FEDERAL 2-23-9-16, CASTLE PEAK FEDERAL 6-23,
FEDERAL 8-23-9-16, FEDERAL 14-24-9-16**

Cause No. UIC-415

Publication Notices were sent to the following:

Newfield Production Company
1001 17th Street, Suite 2000
Denver, CO 80202

SITLA
675 E 500 S Ste 500
Salt Lake City, UT 84102-2818

Uintah Basin Standard
268 South 200 East
Roosevelt, UT 84066
via e-mail ubs@ubstandard.com

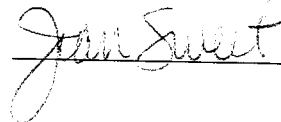
Duchesne County Planning
P O Box 317
Duchesne, UT 84021-0317

Salt Lake Tribune
P O Box 45838
Salt Lake City, UT 84145
via e-mail naclegal@mediaoneutah.com

Bruce Suchomel
US EPA Region 8
MS 8P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129

Vernal Office
Bureau of Land Management
170 South 500 East
Vernal, UT 84078

Newfield Production Company
Rt 3 Box 3630
Myton, UT 84052





GARY R. HERBERT
Governor

SPENCER J. COX
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

December 12, 2013

Via e-mail: legals@ubstandard.com

Uintah Basin Standard
268 South 200 East
Roosevelt, UT 84066

Subject: Notice of Agency Action – Newfield Production Company Cause No. UIC-415

To Whom It May Concern:

Enclosed is a copy of the referenced Notice of Agency Action. Please publish the Notice, once only, as soon as possible. Please notify me via e-mail of the date it will be published. My e-mail address is: jsweet@utah.gov.

Please send proof of publication and billing to:

Division of Oil, Gas and Mining
PO Box 145801
Salt Lake City, UT 84114-5801

Sincerely,

Jean Sweet
Executive Secretary

Enclosure

12/12/2013

State of Utah Mail - Re: Notice of Agency Action – Newfield Production Company Cause No. UIC-415



Jean Sweet <jsweet@utah.gov>

Re: Notice of Agency Action – Newfield Production Company Cause No. UIC-415

1 message

UB Standard Legals <ubslegals@ubmedia.biz>

To: Jean Sweet <jsweet@utah.gov>

Thu, Dec 12, 2013 at 1:22 PM

On 12/12/2013 11:59 AM, Jean Sweet wrote:

Enclosed is a copy of the referenced Notice of Agency Action. Please publish the Notice, once only, as soon as possible. Please notify me via e-mail of the date it will be published. My e-mail address is: jsweet@utah.gov.

Please send proof of publication and billing to:

Division of Oil, Gas and Mining

PO Box 145801

Salt Lake City, UT 84114-5801

Sincerely,

Jean

—

Jean Sweet

Executive Secretary

Utah Division of Oil, Gas and Mining

801-538-5329

This will publish Dec. 17. Thank you. Merry Christmas.
Cindy



GARY R. HERBERT
Governor

SPENCER J. COX
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

December 12, 2013

VIA E-MAIL naclegal@mediaoneutah.com

Salt Lake Tribune
P. O. Box 45838
Salt Lake City, UT 84145

Subject: Notice of Agency Action – Newfield Production Company Cause No. UIC-415

To Whom It May Concern:

Enclosed is a copy of the referenced Notice of Agency Action. Please publish the Notice, once only, as soon as possible. Please notify me via e-mail of the date it will be published. My e-mail address is: jsweet@utah.gov.

Please send proof of publication and billing for **account #9001402352** to:

Division of Oil, Gas and Mining
PO Box 145801
Salt Lake City, UT 84114-5801

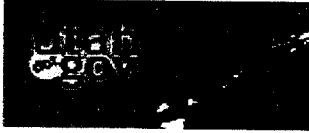
Sincerely,

Jean Sweet
Executive Secretary

Enclosure

12/12/2013

State of Utah Mail - Proof for Notice



Jean Sweet <jsweet@utah.gov>

Proof for Notice

1 message

Stowe, Ken <naclegal@mediaoneutah.com>

Thu, Dec 12, 2013 at 12:34 PM

Reply-To: "Stowe, Ken" <naclegal@mediaoneutah.com>

To: jsweet@utah.gov

AD# 927358

Run SL Trib & Des News 12/13

Cost \$478.76

Thank You



OrderConf.pdf

185K

Order Confirmation for Ad #0000927358-01

Client	DIV OF OIL-GAS & MINING	Payor Customer	DIV OF OIL-GAS & MINING
Client Phone	801-538-5340	Payor Phone	801-538-5340
Account#	9001402352	Payor Account	9001402352
Address	1594 W NORTH TEMP #1210, P.O. BOX 145801 SALT LAKE CITY, UT 84114 USA	Payor Address	1594 W NORTH TEMP #1210, P.O. BOX 145801 SALT LAKE CITY, UT 84114
Fax	801-359-3940	Ordered By	Acct. Exec
Email	juliecarter@utah.gov	Jean	kstowe

Total Amount	\$478.76			
Payment Amt	\$0.00			
		<u>Tear Sheets</u>	<u>Proofs</u>	<u>Affidavits</u>
Amount Due	\$478.76	0	0	1
Payment Method		<u>PO Number</u>	Newfield Cause UIC-4	
Confirmation Notes:				
Text:	Jean			

Ad Type	Ad Size	Color
Legal Liner	3.0 X 94 Li	<NONE>

<u>Product</u>	<u>Placement</u>	<u>Position</u>
Salt Lake Tribune::	Legal Liner Notice - 0998	998-Other Legal Notices
Scheduled Date(s):	12/13/2013	
<u>Product</u>	<u>Placement</u>	<u>Position</u>
Deseret News::	Legal Liner Notice - 0998	998-Other Legal Notices
Scheduled Date(s):	12/13/2013	
<u>Product</u>	<u>Placement</u>	<u>Position</u>
utahlegals.com::	utahlegals.com	utahlegals.com
Scheduled Date(s):	12/13/2013	

Order Confirmation for Ad #0000927358-01

Ad Content Proof Actual Size

NEWFIELD



Newfield Exploration Company

1001 17th Street | Suite 2000

Denver, Colorado 80202

PH 303-893-0102 | FAX 303-893-0103

December 3, 2013

Mr. Mark Reinbold
State of Utah
Division of Oil, Gas and Mining
1594 W North Temple
Salt Lake City, Utah 84114-5801

RECEIVED

DEC 05 2013

DIV. OF OIL, GAS & MINING

RE: Permit Application for Water Injection Well
Federal #2-23-9-16
Monument Butte Field, Lease #UTU-15855
Section 23-Township 9S-Range 16E
Duchesne County, Utah

Dear Mr. Reinbold:

Newfield Production Company herein requests approval to convert the Federal #2-23-9-16 from a producing oil well to a water injection well in the Monument Butte (Green River) Field.

I hope you find this application complete; however, if you have any questions or require additional information, please contact me at (303) 893-0102.

Sincerely,


Jill L Loyle
Regulatory Associate

NEWFIELD PRODUCTION COMPANY
APPLICATION FOR APPROVAL OF CLASS II INJECTION WELL
FEDERAL #2-23-9-16
MONUMENT BUTTE FIELD (GREEN RIVER) FIELD
LEASE #UTU-15855
DECEMBER 3, 2013

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STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

APPLICATION FOR INJECTION WELL - UIC FORM 1

OPERATOR Newfield Production Company
ADDRESS 1001 17th Street, Suite 2000
Denver, Colorado 80202

Well Name and number: Federal #2-23-9-16
Field or Unit name: Monument Butte (Green River) Lease No. UTU-15855
Well Location: QQ NWNE section 23 township 9S range 16E county Duchesne

Is this application for expansion of an existing project? Yes ☒ No ☐

Will the proposed well be used for: Enhanced Recovery? Yes ☒ No ☐
Disposal? Yes ☐ No ☒
Storage? Yes ☐ No ☒

Is this application for a new well to be drilled? Yes ☐ No ☒

If this application is for an existing well,
has a casing test been performed on the well? Yes ☐ No ☒

Date of test: _____

API number: 43-013-33003

Proposed injection interval: from 3789 to 5757
Proposed maximum injection: rate 500 bpd pressure 1776 psig
Proposed injection zone contains [x] oil, [] gas, and/or [] fresh water within 1/2
mile of the well.

IMPORTANT: Additional information as required by R615-5-2 should
accompany this form.

List of Attachments: Attachments "A" through "H-1"

I certify that this report is true and complete to the best of my knowledge.

Name: Jill L. Loyle Signature 
Title: Regulatory Associate Date 12/3/2013
Phone No. 303-383-4135

(State use only)

Application approved by _____ Title _____

Approval Date _____

Comments:

FEDERAL 2-23-9-16

Spud Date: 12/06/07
Put on Production: 02/11/08

GL: 5678' KB: 5690'

SURFACE CASING

CSG SIZE: 8-5/8"
GRADE: J-55
WEIGHT: 24#
LENGTH: 7 jts. (312.96')
DEPTH LANDED: 324.81' KB
HOLE SIZE: 12-1/4"
CEMENT DATA: 1- 160, sxs Class "G" cmt, est 4 bbls cmt to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"
GRADE: J-55
WEIGHT: 15.5#
LENGTH: 135 jts. (5818.10')
DEPTH LANDED: 5831.23' KB
HOLE SIZE: 7-7/8"
CEMENT DATA: 300 sxs Prem. Lite II mixed & 400 sxs 50/50 poz.
CEMENT TOP: 156'

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#
NO. OF JOINTS: 154 jts (4888')
TUBING ANCHOR: 4888' KB
NO. OF JOINTS: 2 jts (62.8')
SEATING NIPPLE: 2-7/8" (1.10')
SN LANDED AT: 4953.6' KB
NO. OF JOINTS: 2 jts (64.2')
TOTAL STRING LENGTH: EOT @ 5019' KB

Proposed Injection Wellbore Diagram

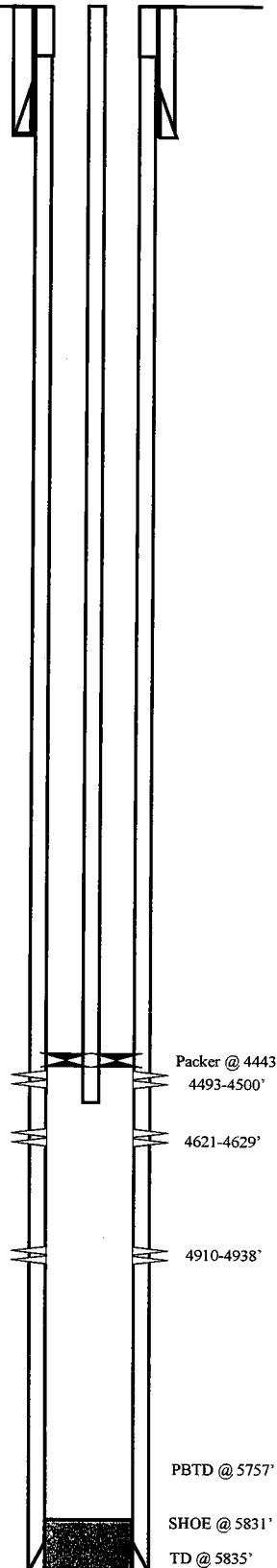
Cement Top @ 156'

FRAC JOB

02/05/08	4910-4938'	Frac A1 sands as follows: 170350# 20/40 sand in 1190 bbl Lightning 17 frac fluid. Treated @ avg press of 1318 psi w/avg rate of 23.6 BPM. ISIP 1809 psi.
02/06/08	4621-4629'	Frac C sands as follows: 14890# 20/40 sand in 264 bbl Lightning 17 frac fluid. Treated @ avg press of 1847 psi w/avg rate of 23.5 BPM. ISIP 1806 psi.
02/06/08	4493-4500'	Frac D1 sands as follows: 9119# 20/40 sand in 237 bbls Lightning 17 frac fluid. Treated @ avg press of 2210 psi w/avg rate of 23.5 BPM. ISIP 2088 psi.
8-1-08		Pump change. Updated rod & tubing details.
12/21/09		Pump change. Updated rod and tubing detail

PERFORATION RECORD

4910-4938'	4 JSPF	112 holes
4621-4629'	4 JSPF	32 holes
4493-4500'	4 JSPF	28 holes



NEWFIELD

FEDERAL 2-23-9-16

760' FNL & 2032' FEL

NW/NE Section 23-T9S-R16E

Duchesne Co, Utah

API #43-013-33003; Lease # UTU-15855

WORK PROCEDURE FOR INJECTION CONVERSION

1. Rig up hot oil truck to casing. Pump water. Unseat pump. Flush rods. Trip out of hole with rods and pump.
2. Trip out of hole with tubing, breaking and doping every connection. Trip in hole with packer and tubing. Rig up water truck to casing. Pump packer fluid. Set packer.
3. Test casing and packer.
4. Rig down and move out.

**REQUIREMENTS FOR INJECTION OF FLUIDS INTO RESERVOIRS
RULE R615-5-1**

- 1. Operations to increase ultimate recovery, such as cycling of gas, the maintenance of pressure, the introduction of gas, water or other substances into a reservoir for the purpose of secondary or other enhanced recovery or for storage and the injection of water into any formation for the purpose of water disposal shall be permitted only by order of the Board after notice and hearing.**
- 2. A request for agency action for authority for the injection of gas, liquified petroleum gas, air, water or any other medium into any formation for any reason, including but not necessarily limited to the establishment of or the expansion of waterflood projects, enhanced recovery projects, and pressure maintenance projects shall contain:**

2.1 The name and address of the operator of the project.

Newfield Production Company
1001 17th Street, Suite 2000
Denver, Colorado 80202

2.2 A plat showing the area involved and identifying all wells, including all proposed injection wells, in the project area and within one-half mile of the project area.

See Attachment A.

2.3 A full description of the particular operation for approval is requested.

Approval is requested to convert the Federal #2-23-9-16 from a producing oil well to a water injection well in Monument Butte (Green River) Field.

2.4 A description of the pools from which the identified wells are producing or have produced.

The proposed injection well will inject into the Green River Formation.

2.5 The names, description and depth of the pool or pools to be affected.

The injection zone is in the Green River Formation. For the Federal #2-23-9-16 well, the proposed injection zone is from Garden Gulch to Basal Carbonate (3789' - 5757'). The confining strata directly above and below the injection zones are the Garden Gulch and the top of the Wasatch Formation or TD, which ever is shallower. The Garden Gulch Marker top is at 3466' and the TD is at 5835'.

2.6 A copy of a log of a representative well completed in the pool.

The referenced log for the Federal #2-23-9-16 is on file with the Utah Division of Oil, Gas and Mining.

- 2.7 A statement as to the type of fluid to be used for injection, its source and the estimated amounts to be injected daily.**

The primary type and source of fluid to be used for injection will be culinary water commingled with produced water. The average estimated injection of fluids will be at a rate of 300 BPD, and the estimated maximum injection will be at a rate of 500 BPD.

- 2.8 A list of all operators and surface owners within one-half mile radius of the proposed project.**

See Attachment B.

- 2.9 An affidavit certifying that said operators or owners and surface owners within a one-half mile radius have been provided a copy of the petition for injection.**

See Attachment C.

- 2.10 Any additional information the Board may determine is necessary to adequately review the petition.**

Newfield Production Company will supply any additional information requested by the Utah Division of Oil, Gas and Mining.

- 4.0 Establish recovery projects may be expanded and additional wells placed on injection only upon authority from the Board after notice and hearing or by administrative approval.**

This proposed injection well is on a Federal lease (Lease #UTU-15855) in the Monument Butte Federal (Green River) Field, and this request is for administrative approval.

**REQUIREMENTS FOR CLASS II INJECTION WELLS INCLUDING WATER DISPOSAL,
STORAGE AND ENHANCED RECOVERY WELLS
SECTION V – RULE R615-5-2**

1. **Injection well shall be completed, equipped, operated, and maintained in a manner that will prevent pollution and damage to any USDW, or other resources and will confine injected fluids to the interval approved.**
2. **The application for an injection well shall include a properly completed Form DOGM-UIC-1 and the following:**

- 2.1 **A plat showing the location of the injection well, all abandoned or active wells within a one-half mile radius of the proposed wells, and the surface owner and the operator of any lands or producing leases, respectively, within a one-half mile radius of the proposed injection well.**

See Attachments A and B.

- 2.2 **Copies of electrical or radioactive logs, including gamma ray logs, for the proposed well run prior to the installation of casing and indicating resistivity, spontaneous potential, caliper and porosity.**

All logs are on file with the Utah Division of Oil, Gas and Mining.

- 2.3 **A copy of a cement bond or comparable log run for the proposed injection well after casing was set and cemented.**

A copy of the cement bond log is on file with the Utah Division of Oil, Gas and Mining.

- 2.4 **Copies of logs already on file with the Division should be referenced, but need not be refiled.**

All copies of logs are on file with the Utah Division of Oil, Gas and Mining.

- 2.5 **A description of the casing or proposed casing program of the injection well and of the proposed method for testing the casing before use of the well.**

The casing program is 8-5/8", 24# surface casing run to 325' KB, and 5-1/2", 15.5# casing run from surface to 5831' KB. A casing integrity test will be conducted at the time of conversion. See Attachment E.

- 2.6 **A statement as to the type of fluid to be used for injection, its source and estimated amounts to be injected daily.**

The primary type and source of fluid to be used for injection will be culinary water commingled with produced water. The estimated average rate of injection will be 300 BPD, and the estimated maximum rate of injection will be 500 BPD.

- 2.7 **Standard laboratory analysis of the fluid to be injected, the fluid in the formation into which the fluid is being injected, and the compatibility of the fluids.**

See Attachment F.

2.8 The proposed average and maximum injection pressures.

The proposed average injection pressure will be approximately 1100 psig and the maximum injection pressure will not exceed 1776 psig.

2.9 Evidence and data to support a finding that the proposed injection well will not initiate fractures through the overlying strata or a confining interval that could enable the injected fluid or formation fluid to enter the fresh water strata.

The minimum fracture gradient for the Federal #2-23-9-16, for existing perforations (4493' - 5938') calculates at 0.82 psig/ft. The maximum injection pressures will be limited so as not to exceed this gradient. A step rate test will be performed periodically to ensure we are below parting pressure. The proposed maximum injection pressure is 1776 psig. We may add additional perforations between 3466' and 5835'. See Attachments G and G-1.

2.10 Appropriate geological data on the injection interval and confining beds, including the geologic name, lithologic description, thickness, depth, and lateral extent.

In the Federal #2-23-9-16, the proposed injection zone (3789' - 5757') is in the Garden Gulch to the Basal Carbonate of the Green River Formation. The reservoir is a very fine-grained sandstone with minor imbedded shale streaks. The estimated porosity is 13%. The members are composed of porous and permeable lenticular calcareous sandstone and low porosity carbonates and calcareous shale. The porous and lenticular sandstone varies in thickness from 0-31' and is confined to the Monument Butte Federal Field. Outside the Monument Butte Federal Field, the sandstone is composed of tight, very fine, silty, calcareous sandstone, less than 3' thick. The stratum confining the injection zone is composed of tight, moderately calcareous, sandy lacustrine shale. All of the confining strata are impermeable, and will effectively seal off the oil, gas, and water of the injection zone from any strata directly above or below it.

2.11 A review of the mechanical condition of each well within a one-half mile radius of the proposed injection well to assure that no conduit exists that could enable fluids to migrate up or down the wellbore and enter the improper intervals.

See Attachments E through E-12.

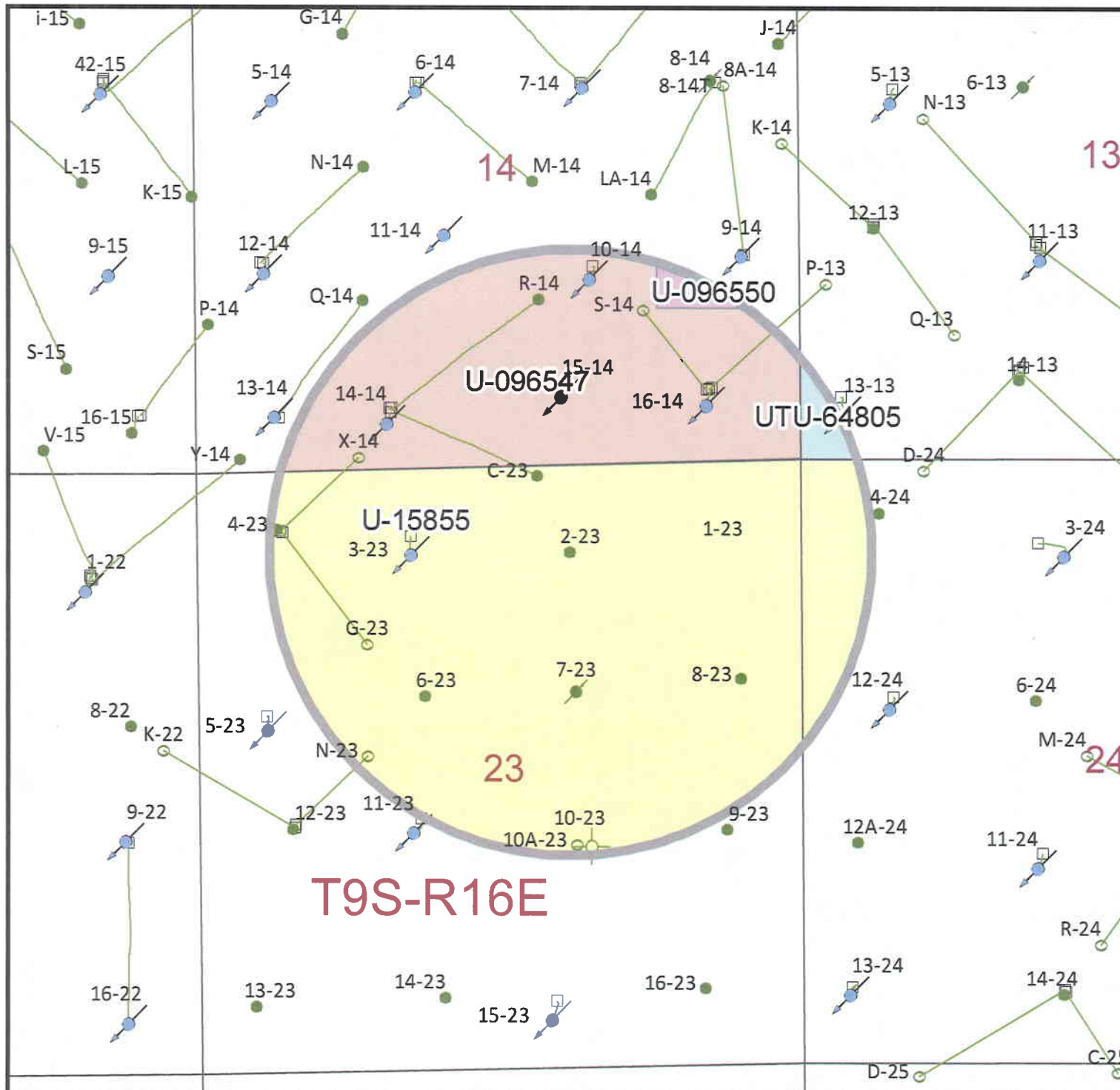
Additionally, the injection system will be equipped with high and low pressure shut down devices that will automatically shut in injection waters if a system blockage or leakage occurs. One way check valves will also ensure proper flow management. Relief valves will also be utilized for high-pressure relief.

2.12 An affidavit certifying that a copy of the application has been provided to all operators or owners, and surface owners within a one-half mile radius of the proposed injection well.

See Attachment C.

2.13 Any other information that the Board or Division may determine is necessary to adequately review the application.

Newfield Production Company will supply any requested information to the Board or Division.



Lease Number

- U-096547
- U-096550
- U-15855
- UTU-64805

Well Status

- Location
- CTI
- Surface Spud
- Drilling
- Waiting on Completion
- Producing Oil Well
- Producing Gas Well
- Water Injection Well
- Dry Hole
- Temporarily Abandoned
- Plugged & Abandoned
- Shut In
- Well Surface Location

Federal 2-23-9-16
Section 23, T9S-R16E



1/2 Mile Radius Map

Duchesne County

1001 17th Street Suite 2000
Denver, Colorado 80202
Phone: (303) 893-0102

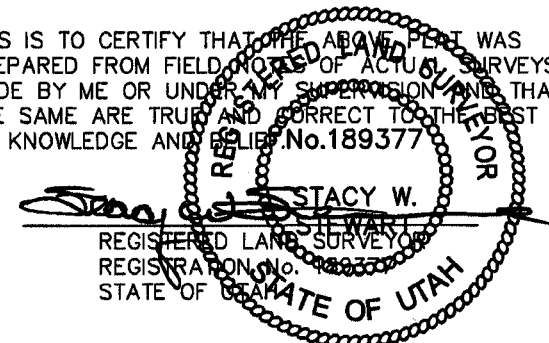
Nov. 6, 2013

T9S, R16E, S.L.B.&M.**NEWFIELD PRODUCTION COMPANY**

WELL LOCATION, CASTLE PEAK 2-23,
LOCATED AS SHOWN IN THE NW 1/4 NE
1/4 OF SECTION 23, T9S, R16E,
S.L.B.&M. DUCHESNE COUNTY, UTAH.



THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS
PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS
MADE BY ME OR UNDER MY SUPERVISION AND THAT
THE SAME ARE TRUE AND CORRECT TO THE BEST OF
MY KNOWLEDGE AND BELIEF. No. 189377



TRI STATE LAND SURVEYING & CONSULTING
180 NORTH VERNAL AVE. - VERNAL, UTAH 84078
(435) 781-2501

SCALE: 1" = 1000'

SURVEYED BY: C.M.

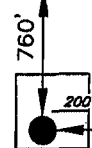
DATE: 11-16-05

DRAWN BY: F.T.M.

NOTES:

FILE #

2623.06' (Measured) S89°54'W - 79.82 (G.L.O.)
S89°54'W G.L.O. (Basis of Bearings) N89°56'12"W - 2637.93' (Meas.)

1910
Brass Cap1910
Brass Cap1910
Brass CapDRILLING
WINDOW

2032'

N00°01'W (G.L.O.)
N00°01'W (G.L.O.)N0°01'W (G.L.O.)
N00°02'10"W - 2624.56' (Meas.)1910
Brass Cap**23**Tri State
Aluminum Cap

WELL LOCATION:
CASTLE PEAK 2-23

ELEV. UNGRADED GROUND = 5677.8'

S89°52'W - 79.84 (G.L.O.)



= SECTION CORNERS LOCATED

BASIS OF ELEV; U.S.G.S. 7-1/2 min QUAD (MYTON SE)

EXHIBIT B

#	Legal Description	Lessor & Expiration	Lessee & Operating Rights	Surface Owner
1	T9S-R16E SLM Section 11: W2SW, SESW Section 14: SWNE, W2, W2SE, SESE	USA UTU-096547 HBP	Newfield Production Company Newfield RMI LLC Yates Petroleum Corporation ABO Petroleum Corp Myco Industries Inc Oxy Y-1 Company	USA
2	T9S-16E SLM Section 23: E2, NW, E2SW, NWSW Section 24: N2, SW, N2SE, SWSE	USA UTU-15855 HBP	Newfield Production Company Newfield RMI LLC Bee Hive Oil LLC Journey Properties LLC King Oil & Gas of Texas LTD Six Gold Oil LLC Stone Energy Corp	USA
3	T9S-16E SLM Section 11: E2, NW, NESW Section 12: NW Section 14: N2NE, SENE, NESE	USA UTU-096550 HBP	Newfield Production Company Newfield RMI LLC ABO Petro Corp MYCO Industries Inc OXY Y-1 Company Yates Petroleum Corp	USA
4	T9S-R16E SLM Section 13: NWNE, NENW, S2N2, S2	USA UTU-64805 HBP	Newfield Production Company Newfield RMI LLC ABO Petro Corp MYCO Industries Inc OXY Y-1 Company Yates Petroleum Corp	USA

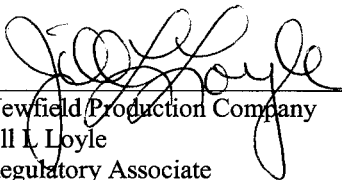
ATTACHMENT C

CERTIFICATION FOR SURFACE OWNER NOTIFICATION

RE: Application for Approval of Class II Injection Well
Federal #2-23-9-16

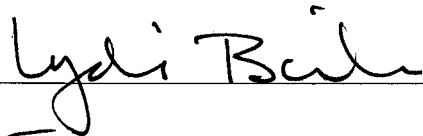
I hereby certify that a copy of the injection application has been provided to all surface owners within a one-half mile radius of the proposed injection well.

Signed: _____


Newfield Production Company
Jill L. Loyle
Regulatory Associate

Sworn to and subscribed before me this 3rd day of December, 2013.

Notary Public in and for the State of Colorado: _____



My Commission Expires: _____

12/31/15

LYDIA BIONDO
Notary Public
State of Colorado

FEDERAL 2-23-9-16

Attachment E

Spud Date: 12/06/07
Put on Production: 02/11/08

GL: 5678' KB: 5690'

SURFACE CASING

CSG SIZE: 8-5/8"
GRADE: J-55
WEIGHT: 24#
LENGTH: 7 jts. (312.96')
DEPTH LANDED: 324.81' KB
HOLE SIZE: 12-1/4"
CEMENT DATA: 1- 160, sxs Class "G" cmt, est 4 bbls cmt to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"
GRADE: J-55
WEIGHT: 15.5#
LENGTH: 135 jts. (5818.10')
DEPTH LANDED: 5831.23' KB
HOLE SIZE: 7-7/8"
CEMENT DATA: 300 sxs Prem. Lite II mixed & 400 sxs 50/50 poz.
CEMENT TOP: 156'

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#
NO. OF JOINTS: 154 jts (4888')
TUBING ANCHOR: 4888' KB
NO. OF JOINTS: 2 jts (62.8')
SEATING NIPPLE: 2-7/8" (1.10')
SN LANDED AT: 4953.6' KB
NO. OF JOINTS: 2 jts (64.2')
TOTAL STRING LENGTH: EOT @ 5019' KB

SUCKER RODS

POLISHED ROD: 1-1/2" x 26'
SUCKER RODS: 1- 2'x 3/4" pony rod, 1- 4'x 3/4" pony rod, 1- 6'x 3/4" pony rod, 1- 8'x 3/4" pony rod, 100- 3/4" guided rods, 72- 3/4" guided rods, 20- 3/4" guided rods, 6- 1 1/2" weight bars
PUMP SIZE: 2-1/2" x 1-1/2" x 16' x 20' RHAC
STROKE LENGTH: 102"
PUMP SPEED, SPM: 5

Wellbore Diagram

Cement Top @ 156'

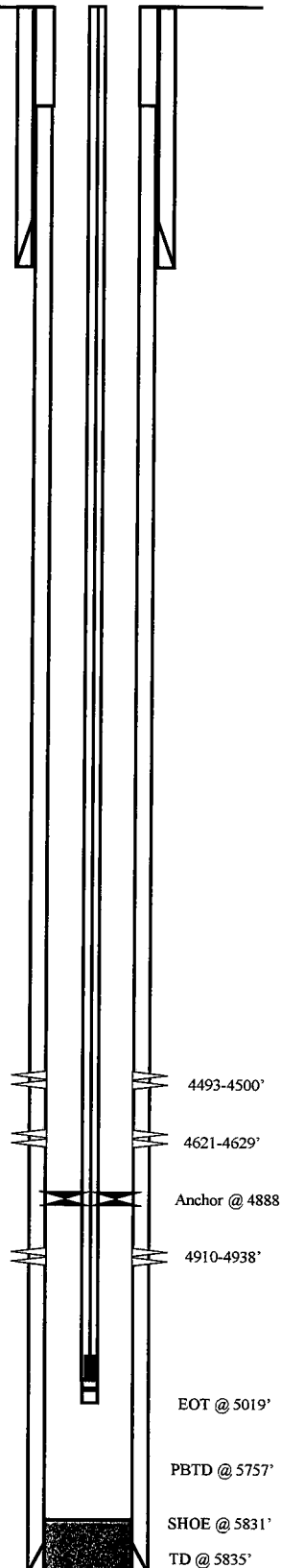
SN 4954'

FRAC JOB

02/05/08 4910-4938' **Frac A1 sands as follows:**
170350# 20/40 sand in 1190 bbl Lightning 17 frac fluid. Treated @ avg press of 1318 psi w/avg rate of 23.6 BPM. ISIP 1809 psi.
02/06/08 4621-4629' **Frac C sands as follows:**
14890# 20/40 sand in 264 bbl Lightning 17 frac fluid. Treated @ avg press of 1847 psi w/avg rate of 23.5 BPM. ISIP 1806 psi.
02/06/08 4493-4500' **Frac D1 sands as follows:**
9119# 20/40 sand in 237 bbls Lightning 17 frac fluid. Treated @ avg press of 2210 psi w/avg rate of 23.5 BPM. ISIP 2088 psi.
8-1-08 Pump change. Updated rod & tubing details.
12/21/09 Pump change. Updated rod and tubing detail

PERFORATION RECORD

4910-4938' 4 JSPF 112 holes
4621-4629' 4 JSPF 32 holes
4493-4500' 4 JSPF 28 holes



NEWFIELD

FEDERAL 2-23-9-16

760' FNL & 2032' FEL

NW/NE Section 23-T9S-R16E

Duchesne Co, Utah

API #43-013-33003; Lease # UTU-15855

FEDERAL 1-23-9-16

Spud Date: 12/06/07
Put on Production: 02/11/08
GL: 5651' KB: 5663'

Wellbore Diagram

Initial Production: BOPD,
MCFD, BWPD

SURFACE CASING

CSG SIZE: 8-5/8"
GRADE: J-55
WEIGHT: 24#
LENGTH: 7 jts (309.17')
DEPTH LANDED: 321'
HOLE SIZE: 12 1/4"
CEMENT DATA: To Surface w/160sx of class 'G' cement

PRODUCTION CASING

CSG SIZE: 5-1/2"
GRADE: J-55
WEIGHT: 15.5#
LENGTH: 5815'
DEPTH LANDED: 5784'
HOLE SIZE: 7-7/8"
CEMENT DATA: 300 sx of Primlite II and 400 sx of 50/50 poz.
CEMENT TOP: 91'

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#
NO. OF JOINTS: 170 jts (5430.4')
TUBING ANCHOR: 5442' KB
NO. OF JOINTS: 1 jt (31.4')
SEATING NIPPLE: 2-7/8" (1.10')
SN LANDED AT: 5476.7' KB
NO. OF JOINTS: 2 jts (62.8')
TOTAL STRING LENGTH: EOT @ 5541' KB

SUCKER RODS

POLISHED ROD: 1-1/2" x 26' SM polished rods
SUCKER RODS: 1-2', 1-4' x 3/4" pony rod, 2-8' x 3/4" pony rods, 99- 3/4" guided rods, 89- 3/4" sucker rods, 20- 3/4" guided rods, 6- 1 1/2" sinker bars
PUMP SIZE: CDI 2-1/2" x 1-1/2" x 12' x 16' RHAC
STROKE LENGTH: 86"
PUMP SPEED: 5 SPM

FRAC JOB

2/19/08 5365-5373

Frac CP1 sds w/ 22,746#s of 20/40 sand in 347 bbls of Lightning 17 fluid. Broke @ 3471 psi. Pumped 780 gals of fresh wtr mixed with 30 gals of Techni-Hib 767W. Treated w/ ave pressure of 2152 psi @ ave rate of 23 BPM. Pumped 504 gals of 15% HCL in flush for Stage #2. ISIP 1913 psi. Calc flush: ? Actual Flush: 4830 gals.

2/19/08 4898-4916

Frac A1 & A3 sds w/ 159,791#s of 20/40 sand in 1105 bbls of Lightning 17 fluid. Broke @ 3520 psi. Pumped 780 gals of fresh wtr mixed with 30 gals of Techni-Hib 767W. Treated w/ ave pressure of 1790 psi @ ave rate of 23.2 BPM. Pumped 504 gals of 15% HCL in flush for Stage #3. ISIP 2091 psi. Calc Flush: ? Actual Flush: 4330 gals.

2/19/08 4951-4963

Frac A1 & A3 sds w/ 159,791#s of 20/40 sand in 1105 bbls of Lightning 17 fluid. Broke @ 3520 psi. Pumped 780 gals of fresh wtr mixed with 30 gals of Techni-Hib 767W. Treated w/ ave pressure of 1790 psi @ ave rate of 23.2 BPM. Pumped 504 gals of 15% HCL in flush for Stage #3. ISIP 2091 psi. Calc Flush: ? Actual Flush: 4330 gals.

2/19/08 4007-4018

Frac GB6 sds w/ 43,024#s of 20/40 sand in 389 bbls of Lightning 17 fluid. Broke @ 3772 psi. Pumped 780 gals of fresh wtr mixed with 30 gals of Techni-Hib 767W. Treated w/ ave pressure of 1653 psi @ ave rate of 23.2 BPM. ISIP 1697 psi. Calc flush: ? Actual Flush: 3948 gals.

10/8/08 Pump change. Updated rod & tubing details.

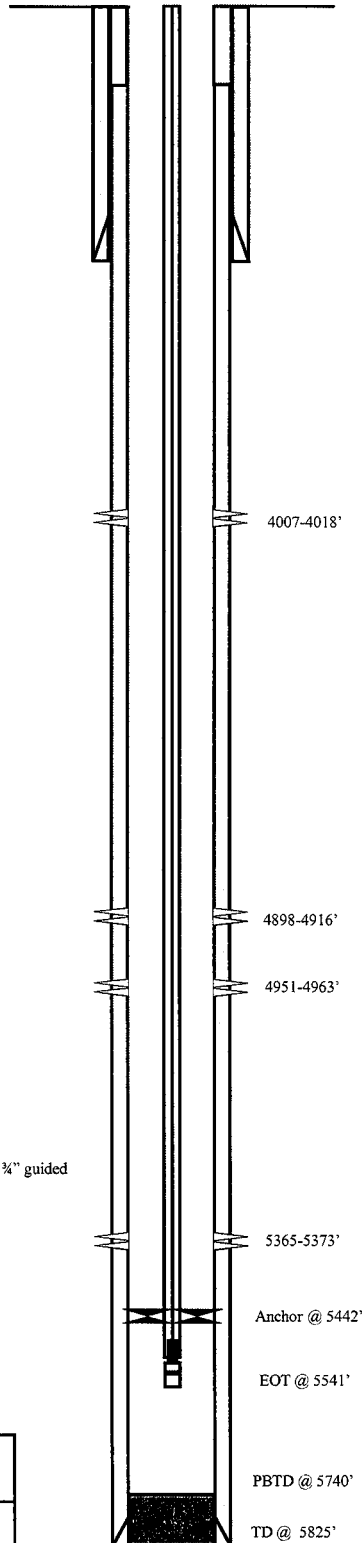
2/1/2010 Pump change. Updated rod and tubing detail.

12/22/2010 Tubing Leak. Update rod and tubing details

01/18/2011 Pump Change. Rods & tubing details updated.

PERFORATION RECORD

02/12/08	5365-5373	4 JSPF	32 holes
02/19/08	4951-4963	4 JSPF	48 holes
02/19/08	4898-4916	4 JSPF	72 holes
02/19/08	4007-4018	4 JSPF	44 holes



NEWFIELD

FEDERAL 1-23-9-16

632' FNL & 472' FEL

NE/NE Section 23-T9S-R16E

Duchesne Co, Utah

API #43-013-33002; Lease # U-15855

FEDERAL 3-23-9-16

Spud Date: 01/08/08

Put on Production: 03/07/08

GL:5680' KB:5692'

Injection Wellbore
DiagramSURFACE CASING

CSG SIZE: 8-5/8"

GRADE: J-55

WEIGHT: 24#

LENGTH: 7 jts. (284.85')

DEPTH LANDED: 296.70' KB

HOLE SIZE: 12-1/4"

CEMENT DATA: 1- 160, sxs Class "G" cmt, est 5 bbls cmt to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"

GRADE: J-55

WEIGHT: 15.5#

LENGTH: 130 jts. (5811.31')

DEPTH LANDED: 5781.17' KB

HOLE SIZE: 7-7/8"

CEMENT DATA: 300 sxs Prem. Lite II mixed & 400 sxs 50/50 poz

CEMENT TOP: 92'

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#

NO. OF JOINTS: 124 jts (3889.7')

SEATING NIPPLE: 2-7/8" (1.10')

SN LANDED AT: 3901.7' KB

ON/OFF TOOL AT: 3902.8'

ARROW #1 PACKER CE AT: 3907'

XO 2-3/8 x 2-7/8 J-55 AT: 3911.6'

TBG PUP 2-3/8 J-55 AT: 3912.1'

X/N NIPPLE AT: 3916.1'

TOTAL STRING LENGTH: EOT @ 3917.5'

FRAC JOB

02/28/08 4937-4949'

Frac A3 sands as follows:

60177# 20/40 sand in 519 bbls Lightning 17 frac fluid. Treated @ avg press of 2021 psi w/avg rate of 23.3 BPM. ISIP 2150 psi.

02/28/08 4739-4748'

Frac B2 sands as follows:

40603# 20/40 sand in 407 bbl Lightning 17 frac fluid. Treated @ avg press of 1923 psi w/avg rate of 23.2 BPM. ISIP 1964 psi.

02/28/08 4612-4621'

Frac C sands as follows:

25535# 20/40 sand in 350 bbls Lightning 17 frac fluid. Treated @ avg press of 2360 psi w/avg rate of 23.1 BPM. ISIP 2760 psi.

02/28/08 4477-4484'

Frac D1 sands as follows:

20500# 20/40 sand in 300 bbls Lightning 17 frac fluid. Treated @ avg press of 2099 psi w/avg rate of 23.2 BPM. ISIP 2016 psi.

02/28/08 3956-3968'

Frac GB4 sands as follows:

23017# 20/40 sand in 301 bbls Lightning 17 frac fluid. Treated @ avg press of 1777 psi w/avg rate of 23.0 BPM. ISIP 1817 psi.

10/11/11

Parted Rods. Updated rod & tubing detail.

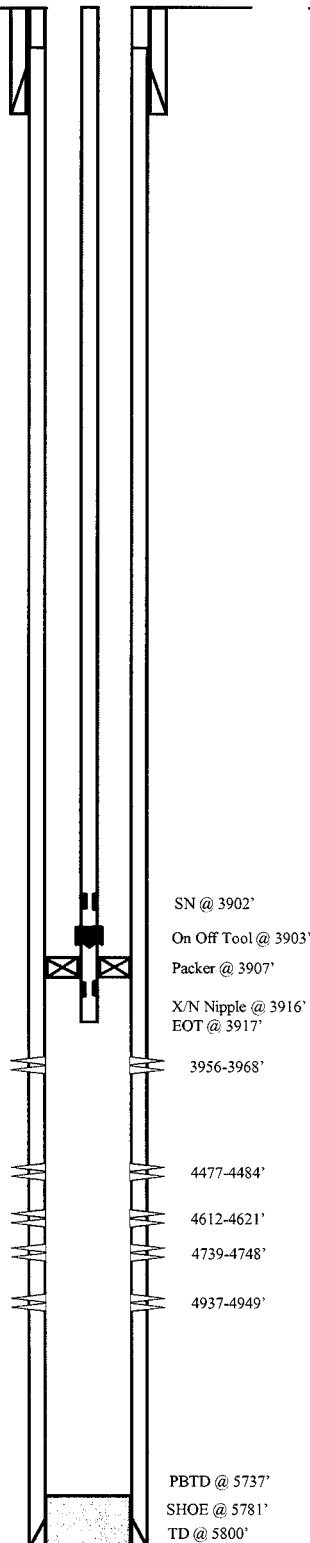
11/20/12

Convert to Injection Well

11/21/12

Conversion MIT Finalized – update tbg detailPERFORATION RECORD

4937-4949'	4 JSPF	48 holes
4739-4748'	4 JSPF	36 holes
4612-4621'	4 JSPF	36 holes
4477-4484'	4 JSPF	28 holes
3956-3968'	4 JSPF	48 holes

**NEWFIELD****FEDERAL 3-23-9-16**

586' FNL & 1849' FWL

NE/NW Section 23-T9S-R16E

Duchesne Co, Utah

API #43-013-33176; Lease #UTU-15855

Federal 4-23-9-16

Spud Date: 01-09-08
Put on Production: 3-10-08
GL: 5716' KB: 5728'

Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"
GRADE: J-55
WEIGHT: 24#
LENGTH: 7 jts. (312.55')
HOLE SIZE: 12-1/4"
CEMENT DATA: 160 sxs Class "G" cmt

PRODUCTION CASING

CSG SIZE: 5-1/2"
GRADE: J-55
WEIGHT: 15.5#
LENGTH: 133jts. (5715.22')
HOLE SIZE: 7-7/8"
DEPTH LANDED: 5728.47'
CEMENT DATA: 300 sk Prem. Lite II mixed & 400 sxs 50/50 POZ.
CEMENT TOP AT: 134'

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#
NO. OF JOINTS: 175 jts (5507.16')
TUBING ANCHOR: 5519.16'
NO. OF JOINTS: 1 jts (31.39')
SEATING NIPPLE: 2-7/8" (1.10')
SN LANDED AT: 5553.35' KB
NO. OF JOINTS: 1 jts (31.48')
TOTAL STRING LENGTH: EOT @ 5586.38' w/12' KB

SUCKER RODS

POLISHED ROD: 1-1/2" x 26'
SUCKER RODS: 1-6', 1-4' & 1-2' X 3/4" ponies, 100-3/4" guided rods, 95- 3/4" plain rods, 20-3/4" guided rods, 6- 1 1/2" weighted bars.
PUMP SIZE: 2-1/2" x 1-1/2" x 12" X 15.5' RHAC pump w/ SM plunger
STROKE LENGTH: 86"
PUMP SPEED, SPM: 4

FRAC JOB

2-29-08 5547-5562' **Frac CP4 sands as follows:**
Frac with 40523# 20/40 sand in 434 bbls Lightning 17 fluid. Treat at an ave pressure of 1786 psi @ 23.2 BPM. ISIP 1970 psi.

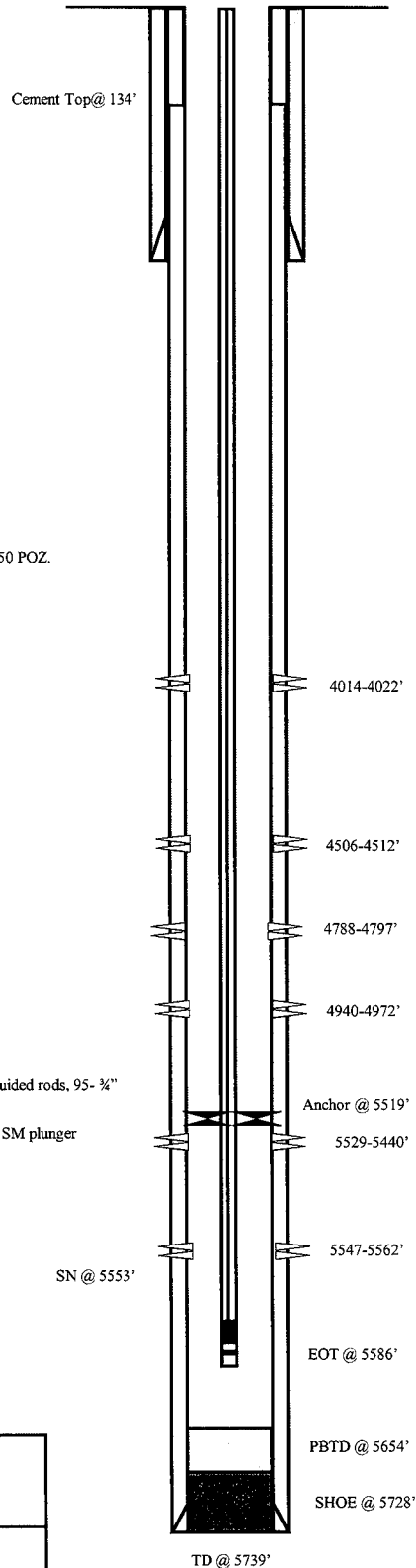
2-29-08 5429-5440' **Frac CP2 sands as follows:**
Frac with 20386 # 20/40 sand in 333 bbls Lightning 17 fluid. Treat at an ave pressure of 1963 psi @ 25 BPM. ISIP 1840 psi.

2-29-08 4940-4972' **Frac A1 sands as follows:**
Frac with 120556 #'s 20/40 sand in 869 bbls Lightning 17 fluid. Treat at an ave pressure of 1845 psi @ 24.5 BPM. ISIP 2105 psi.

2-29-08 4788-4797' **Frac B2 sand as follows:**
Frac with 50665 #'s of 20/40 sand in 450 bbls Lightning 17 fluid. Treat at an ave pressure of 1990 psi @ 24.5 BPM. ISIP 1945 psi.

2-29-08 4506-4512' **Frac D1 sands as follows:**
Frac with 15200 #'s 20/40 sand in 259 bbls Lightning 17 fluid. Treat at an ave pressure of 1942 psi @ 24.3 BPM. ISIP 1825 psi.

2-29-08 4014-4022' **Frac GB6 sands as follows:**
Frac with 40122 #'s 20/40 sand in 384 bbls Lightning 17 fluid. Treat at an ave pressure of 2036 psi @ 24.3 BPM. ISIP 1880 psi.

PERFORATION RECORD

4014-4022'	4 JSPF	32 holes
4506-4512'	4 JSPF	24 holes
4788-4797'	4 JSPF	36 holes
4940-4972'	4 JSPF	128 holes
5429-5440'	4 JSPF	44 holes
5547-5562'	4 JSPF	60 holes

NEWFIELD



Federal 4-23-9-16
499' FNL & 685' FWL
NWNW Section 23-T9S-R16E
Duchesne Co, Utah
API #43-013-33177; Lease #UTU-15855

43-013-32961

Attachment E-4

NEWFIELD



Schematic

Well Name: Federal 8-23-9-16

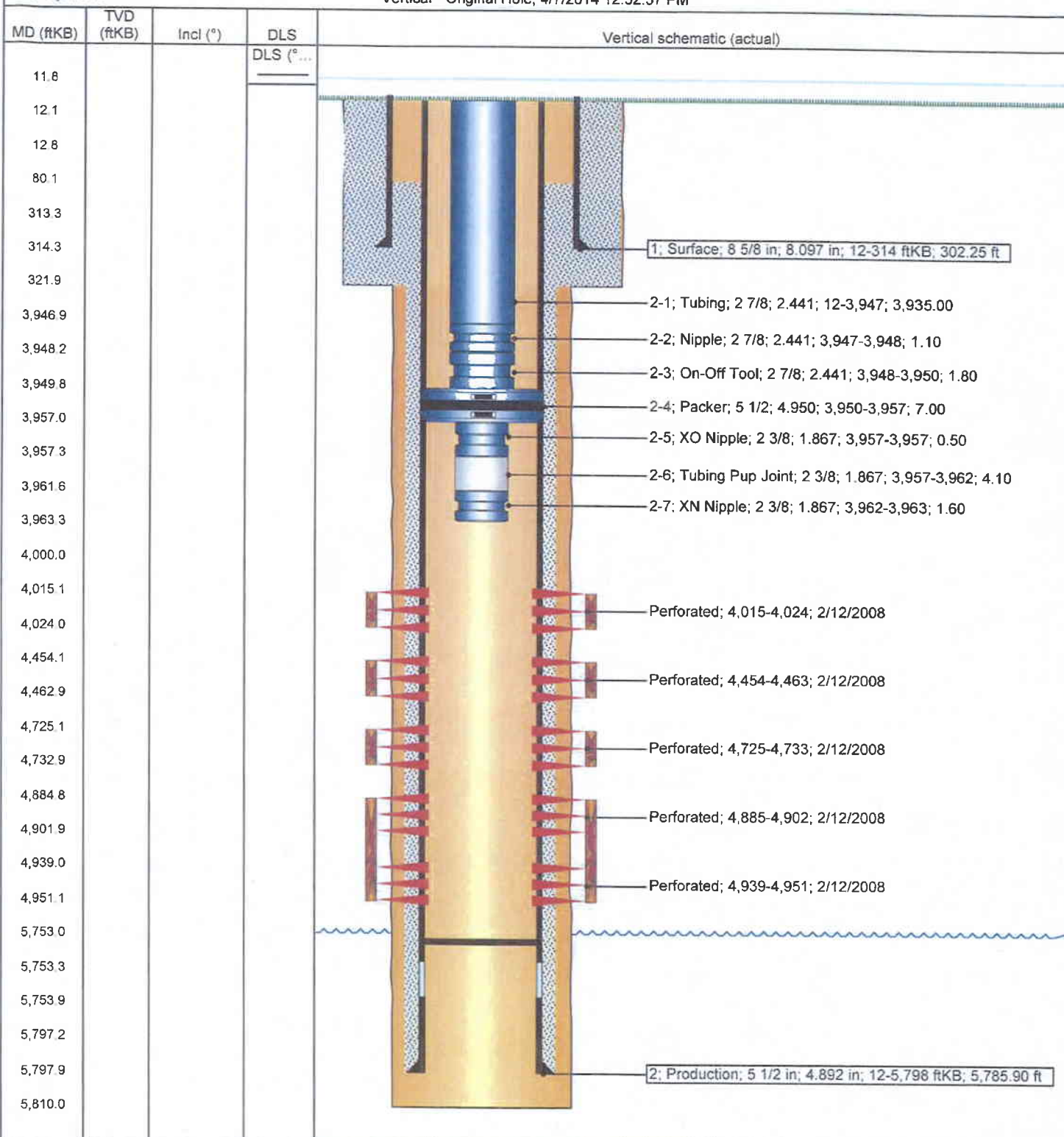
Surface Legal Location 23-9S-16E	API/JWT 43013329610000	Well RC 500159250	Lease	State/Province Utah	Field Name GMBU CTB6	County DUCHESNE
Spud Date	Rig Release Date	On Production Date 2/14/2008	Original KB Elevation (ft) 5,697	Ground Elevation (ft) 5,685	Total Depth All (TVD) (ftKB)	PBTD (Alt) (ftKB) Original Hole - 5,753.0

Most Recent Job

Job Category Production / Workover	Primary Job Type Conversion	Secondary Job Type Basic	Job Start Date 2/14/2014	Job End Date
---------------------------------------	--------------------------------	-----------------------------	-----------------------------	--------------

TD: 5,810.0

Vertical - Original Hole, 4/7/2014 12:52:37 PM



NEWFIELD



Newfield Wellbore Diagram Data Federal 8-23-9-16

Attachment E-4 (cont.)

Surface Legal Location 23-9S-16E		API/UWI 43013329610000		Lease	
County DUCHESE		State/Province Utah		Field Name GMBU CTB6	
Well Start Date 12/13/2007		Spud Date		On Production Date 2/14/2008	
Original KB Elevation (ft) 5,697	Ground Elevation (ft) 5,685	Total Depth (ftKB) 5,810.0		PBTD (All) (ftKB) Original Hole - 5,753.0	

Casing Strings

Csg Des	Run Date	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	Set Depth (ftKB)
Surface	12/13/2007	8 5/8	8.097	24.00	J-55	314
Production	1/21/2008	5 1/2	4.950	15.50	J-55	5,798

Cement

String: Surface, 314ftKB 12/19/2007

Cementing Company BJ Services Company		Top Depth (ftKB) 12.0	Bottom Depth (ftKB) 314.2	Full Return?	Vol Cement Ret (bbl)
Fluid Description		Fluid Type Lead	Amount (sacks) 160	Class G	Estimated Top (ftKB) 12.0

String: Production, 5,798ftKB 1/21/2008

Cementing Company BJ Services Company		Top Depth (ftKB) 80.0	Bottom Depth (ftKB) 4,000.0	Full Return?	Vol Cement Ret (bbl)
Fluid Description Premite II w/ 10% gel + 3 % KCL, 3#s /sk CSE + 2# sk/kolseal + 1/2#s/sk Cello Flake mixed @ 11.0 ppg W / 3.43 cf/sk yield		Fluid Type Lead	Amount (sacks) 300	Class PL II	Estimated Top (ftKB) 80.0

String: Production, 5,798ftKB 1/21/2008

Cementing Company BJ Services Company		Top Depth (ftKB) 4,000.0	Bottom Depth (ftKB) 5,797.9	Full Return?	Vol Cement Ret (bbl)
Fluid Description 50/50 poz W/ 2% Gel + 3% KCL, .5%EC1, 1/4# sk C.F. 2% gel. 3% SM mixed @ 14.4 ppg W/ 1.24 YLD		Fluid Type Tail	Amount (sacks) 400	Class 50/50 Poz	Estimated Top (ftKB) 4,000.0

Tubing Strings

Tubing Description		Run Date 2/21/2014			Set Depth (ftKB) 3,963.1		
Item Des	Jts	OD (in)	ID (in)	Wt (lb/ft)	Grade	Len (ft)	Top (ftKB) Btm (ftKB)
Tubing	124	2 7/8	2.441	6.50	J-55	3,935.00	12.0 3,947.0
Nipple		2 7/8	2.441			1.10	3,947.0 3,948.1
On-Off Tool		2 7/8	2.441			1.80	3,948.1 3,949.9
Packer		5 1/2	4.950			7.00	3,949.9 3,956.9
XO Nipple		2 3/8	1.867			0.50	3,956.9 3,957.4
Tubing Pup Joint		2 3/8	1.867			4.10	3,957.4 3,961.5
XN Nipple		2 3/8	1.867			1.60	3,961.5 3,963.1

Rod Strings

Rod Description		Run Date			Set Depth (ftKB)		
Item Des	Jts	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Top (ftKB)	Btm (ftKB)

Perforation Intervals

Stage#	Zone	Top (ftKB)	Btm (ftKB)	Shot Dens (shots/ft)	Phasing (°)	Norm Hole Dia (in)	Date
	GB6, Original Hole	4,015	4,024	4	120		2/12/2008
3	D1, Original Hole	4,454	4,463	4	120		2/12/2008
2	B1, Original Hole	4,725	4,733	4	120		2/12/2008
1	A1, Original Hole	4,885	4,902	4	120		2/12/2008
1	A3, Original Hole	4,939	4,951	4	120		2/12/2008

Stimulations & Treatments

Stage#	ISIP (psi)	Frac Gradient (psi/ft)	Max Rate (bbl/min)	Max PSI (psi)	Total Clean Vol (bbl)	Total Slurry Vol (bbl)	Vol Recov (bbl)
1	2,249	0.89	23.4	2,361			
2	1,943	0.84	23.4	2,104			
3	1,971	0.88	23.4	2,122			
4	1,702	0.86	23.4	2,090			

Proppant

Stage#	Total Prop Vol Pumped (lb)	Total Add Amount
1		Sand Sand 135331 lb
2		Sand Sand 31069 lb
3		Sand Sand 45231 lb
4		Sand Sand 39181 lb

FEDERAL 13-13-9-16

Spud Date: 04/13/07

Put on Production: 05/23/07

GL: 5592' KB: 5604'

Initial Production: 53 BOPD,
3 MCFD, 88 BWPDInjection Wellbore
DiagramSURFACE CASING

CSG SIZE: 8-5/8"

GRADE: J-55

WEIGHT: 24#

LENGTH: 7 jts. (309.33')

DEPTH LANDED: 319.33' KB

HOLE SIZE: 12-1/4"

CEMENT DATA: 160 sxs Class "G" cmt, est 4 bbls cmt to surf.

Cement Top @ Surface

Casing shoe @ 319'

PRODUCTION CASING

CSG SIZE: 5-1/2"

GRADE: J-55

WEIGHT: 15.5#

LENGTH: 131 jts. (5793.19')

DEPTH LANDED: 5789.19' KB

HOLE SIZE: 7-7/8"

CEMENT DATA: 325 sxs Prem. Lite II mixed & 425 sxs 50/50 POZ.

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#

NO. OF JOINTS: 126 jts (3906.4')

SEATING NIPPLE: 2-7/8" (1.10')

SN LANDED AT: 3918.4' KB

ON/OFF TOOL AT: 3919.5'

ARROW #1 PACKER CE AT: 3924.9'

XO 2-3/8 x 2-7/8 J-55 AT: 3928.3'

TBG PUP 2-3/8 J-55 AT: 3928.8'

X/N NIPPLE AT: 3932.9'

TOTAL STRING LENGTH: EOT @ 3934.27'

SN @ 3918'

On Off Tool @ 3919'

Packer @ 3925'

X/N Nipple @ 3933'
EOT @ 3934'3983-3990'
4027-4035'

4494-4499'

4628-4642'

4909-4914'
4949-4959'

5366-5374'

5528-5533'

PBTD @ 5756'

SHOE @ 5789'

TD @ 5800'

FRAC JOB

05/15/07 5528-5533'

Frac CP3 sands as follows:

14792# 20/40 sand in 265 bbls Lightning 17 frac fluid. Treated @ avg press of 2351 psi w/avg rate of 24.8 BPM. ISIP 2074 psi. Calc flush: 5526 gal. Actual flush: 5019 gal.

05/15/07 5366-5374'

Frac CP1 sands as follows:

40830# 20/40 sand in 346 bbls Lightning 17 frac fluid. Treated @ avg press of 1857 psi w/avg rate of 22.6 BPM. ISIP 1997 psi. Calc flush: 5364 gal. Actual flush: 4868 gal.

05/18/07 4909-4959'

Frac A1&3 sands as follows:

67943# 20/40 sand in 542 bbls Lightning 17 frac fluid. Treated @ avg press of 1919 psi w/avg rate of 24.7 BPM. ISIP 1970 psi. Calc flush: 4907 gal. Actual flush: 4406 gal.

05/18/07 4628-4642'

Frac C sands as follows:

29975# 20/40 sand in 345 bbls Lightning 17 frac fluid. Treated @ avg press of 1884 psi w/avg rate of 24.7 BPM. ISIP 1910 psi. Calc flush: 4626 gal. Actual flush: 4124 gal.

05/18/07 4494-4499'

Frac D1 sands as follows:

14891# 20/40 sand in 237 bbls Lightning 17 frac fluid. Treated @ avg press of 1954 psi w/avg rate of 24.7 BPM. ISIP 1980 psi. Calc flush: 4492 gal. Actual flush: 3990 gal.

05/18/07 3983-4035'

Frac GB4&6 sands as follows:

56438# 20/40 sand in 443 bbls Lightning 17 frac fluid. Treated @ avg press of 1550 psi w/avg rate of ? BPM. ISIP 1685 psi. Calc flush: 3981 gal. Actual flush: 3910 gal.

7/17/08

Pump change. updated rod and tubing detail.

1/20/2010

Pump change. Updated rod and tubing detail.

12/11/12

Convert to Injection Well

12/12/12

Conversion MIT Finalized – update tbg detailPERFORATION RECORD

05/02/07	5528-5533'	4 JSPF	20 holes
05/15/07	5366-5374'	4 JSPF	32 holes
05/15/07	4949-4959'	4 JSPF	40 holes
05/15/07	4909-4914'	4 JSPF	20 holes
05/18/07	4628-4642'	4 JSPF	56 holes
05/18/07	4494-4499'	4 JSPF	20 holes
05/18/07	4027-4035'	4 JSPF	32 holes
05/18/07	3983-3990'	4 JSPF	28 holes

**FEDERAL 13-13-9-16**555' FSL & 344' FWL
SW/SW Section 13-T9S-R16E
Duchesne Co, Utah

API #43-013-32650; Lease # UTU-64805

LCN 12/18/12

FEDERAL 4-24-9-16

Spud Date: 12/12/07
Put on Production: 02/26/08
GL: 5613' KB: 5625'

Wellbore Diagram

Initial Production: BOPD,
MCFD, BWPD

SURFACE CASING

CSG SIZE: 8-5/8"
GRADE: J-55
WEIGHT: 24#
LENGTH: 7 jts. (304.16')
DEPTH LANDED: 316.01' KB
HOLE SIZE: 12-1/4"
CEMENT DATA: 1- 160, sxs Class "G" cmt, est 3 bbls cmt to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"
GRADE: J-55
WEIGHT: 15.5#
LENGTH: 134 jts. (5745.08')
DEPTH LANDED: 5758.33' KB
HOLE SIZE: 7-7/8"
CEMENT DATA: 300 sxs Prem. Lite II mixed & 400 sxs 50/50 POZ.
CEMENT TOP: 84'

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#
NO. OF JOINTS: 169 jts (5298.24')
TUBING ANCHOR: 5310.24' KB
NO. OF JOINTS: 2 jts (62.78')
SEATING NIPPLE: 2-7/8" (1.10')
SN LANDED AT: 5375.82' KB
NO. OF JOINTS: 2 jts (62.76')
TOTAL STRING LENGTH: EOT @ 5440.13' KB

SUCKER RODS

POLISHED ROD: 1-1/2" x 26' SM polished rods
SUCKER RODS: 1 - 3/4" x 2' Pony Rod, 1 - 3/4" x 4' Pony Rod, 1 - 3/4" x 6' Pony Rod, 99 - 3/4" Guided Rods, 89 - 3/4" Plain Rods, 20 - 3/4" Guided Rods, 6 - 1 1/2" weight bars
PUMP SIZE: CDI 2 1/2" x 1 1/2" x 12 x 19 1/2" RHAC
STROKE LENGTH: 102"
PUMP SPEED: 5 SPM

FRAC JOB

02/21/08 5350-5360' **Frac CP1 sands as follows:**
19538# 20/40 sand in 318 bbls Lightning 17 frac fluid. Treated @ avg press of 2319 psi w/avg rate of 23.0 BPM. ISIP 2169 psi.

02/21/08 5062-5068' **Frac LODC sands as follows:**
14448# 20/40 sand in 267 bbl Lightning 17 frac fluid. Treated @ avg press of 2913 psi w/avg rate of 23.1 BPM. ISIP 3354 psi.

02/21/08 4936-4947' **Frac A3, sands as follows:**
79356# 20/40 sand in 628 bbls Lightning 17 frac fluid. Treated @ avg press of 2038 psi w/avg rate of 23.1 BPM. ISIP 2069 psi.

02/21/08 4893-4900' **Frac A1 sands as follows:**
79356# 20/40 sand in 628 bbls Lightning 17 frac fluid. Treated @ avg press of 2038 psi w/avg rate of 23.1 BPM. ISIP 2069 psi.

02/21/08 4481-4491' **Frac D1 sands as follows:**
54904# 20/40 sand in 482 bbls Lightning 17 frac fluid. Treated @ avg press of 2070 psi w/avg rate of 23.1 BPM. ISIP 2153 psi.

02/21/08 4018-4032' **Frac GB6 sands as follows:**
74458# 20/40 sand in 594 bbls Lightning 17 frac fluid. Treated @ avg press of 2125 psi w/avg rate of 23.1 BPM. ISIP 1788 psi.

PERFORATION RECORD

02/21/08	5350-5360'	4 JSPF	40 holes
02/21/08	5062-5068'	4 JSPF	24 holes
02/21/08	4936-4947'	4 JSPF	44 holes
02/21/08	4893-4900'	4 JSPF	28 holes
02/23/08	4481-4491'	4 JSPF	40 holes
02/23/08	4018-4032'	4 JSPF	56 holes

Cement Top @ 84'

4018-4032'

4481-4491'

4893-4900'

4936-4947'

5062-5068'

Anchor @ 5310'

5350-5360'

EOT @ 5440'

PBTD @ 5705'

TD @ 5775'

NEWFIELD**FEDERAL 4-24-9-16**

462' FNL & 679' FWL

NW/NW Section 24-T9S-R16E

Duchesne Co, Utah

API #43-013-33004; Lease # UTU-15855

Spud Date: 7-30-84

Put on Production: 9-11-84

GL: 5725' KB: 5739'

Castle Peak Federal 6-23-9-16

Injection Wellbore
DiagramSURFACE CASING

CSG SIZE: 8-5/8"
 GRADE: J-55
 WEIGHT: 24#
 LENGTH: 7 jts (295.0')
 DEPTH LANDED: 295'
 HOLE SIZE: 12-1/4"
 CEMENT DATA: 210sxs Class "G" cmt + 2" CaCl + sk Flocele

PRODUCTION CASING

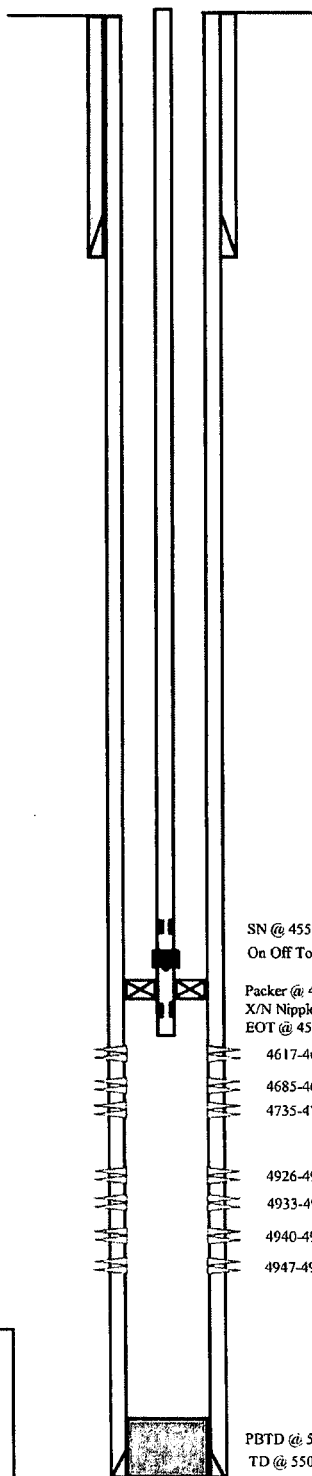
CSG SIZE: 5-1/2"
 GRADE: J-55
 WEIGHT: 17#
 LENGTH: 140 jts (5497.24')
 HOLE SIZE: 7-7/8"
 DEPTH LANDED: 5495.95'
 CEMENT DATA: 120 sxs Lodense, 250 sxs Gypseal
 CEMENT TOP AT: 000'

TUBING

SIZE/GRADE/WT: 2-7/8" / J-55 / 6.5#
 NO. OF JOINTS: 145 jts (4545.3')
 SEATING NIPPLE: 2-7/8" (1.10')
 SN LANDED AT: 4558.3' KB
 ON/OFF TOOL AT: 4559.4'
 ARROW #1 PACKER CE AT: 4564.6'
 XO 2-3/8 x 2-7/8 J-55 AT: 4568.3'
 TBG PUP 2-3/8 J-55 AT: 4569'
 X/N NIPPLE AT: 4573.1'
 TOTAL STRING LENGTH: EOT @ 4574.65'

FRAC JOB

8-22-84 4926-4949' Frac sands as follows:
 Frac with 28500# 20/40 sand in
 96500bbls Lightning 17 fluid
 3/12/11 Tubing Leak. Updated rod and tubing detail
 02/27/14 4685-4737' Frac B.S & B2 sands as follows:
 22138# 20/40 sand in 282 bbls Lightning 17
 frac fluid.
 02/27/14 4685-4737' Frac C sands as follows: 31402# 20/40 sand
 in 282 bbls Lightning 17 frac fluid.
 03/04/14 Conversion MIT Finalized - update tbg
 detail

PERFORATION RECORD

4926-4930'	1 JSPP	4 holes
4933-4937'	1 JSPP	4 holes
4940-4945'	1 JSPP	5 holes
4947-4949'	1 JSPP	2 holes
4735-4737'	3 JSPP	6 holes
4685-4687'	3 JSPP	6 holes
4617-4625'	3 JSPP	24 holes

NEWFIELD

Castle Peak Federal 6-23-9-16

1970'FWL & 1980'FNL

Section 23, T9S, R16E

Duchesne Co, Utah

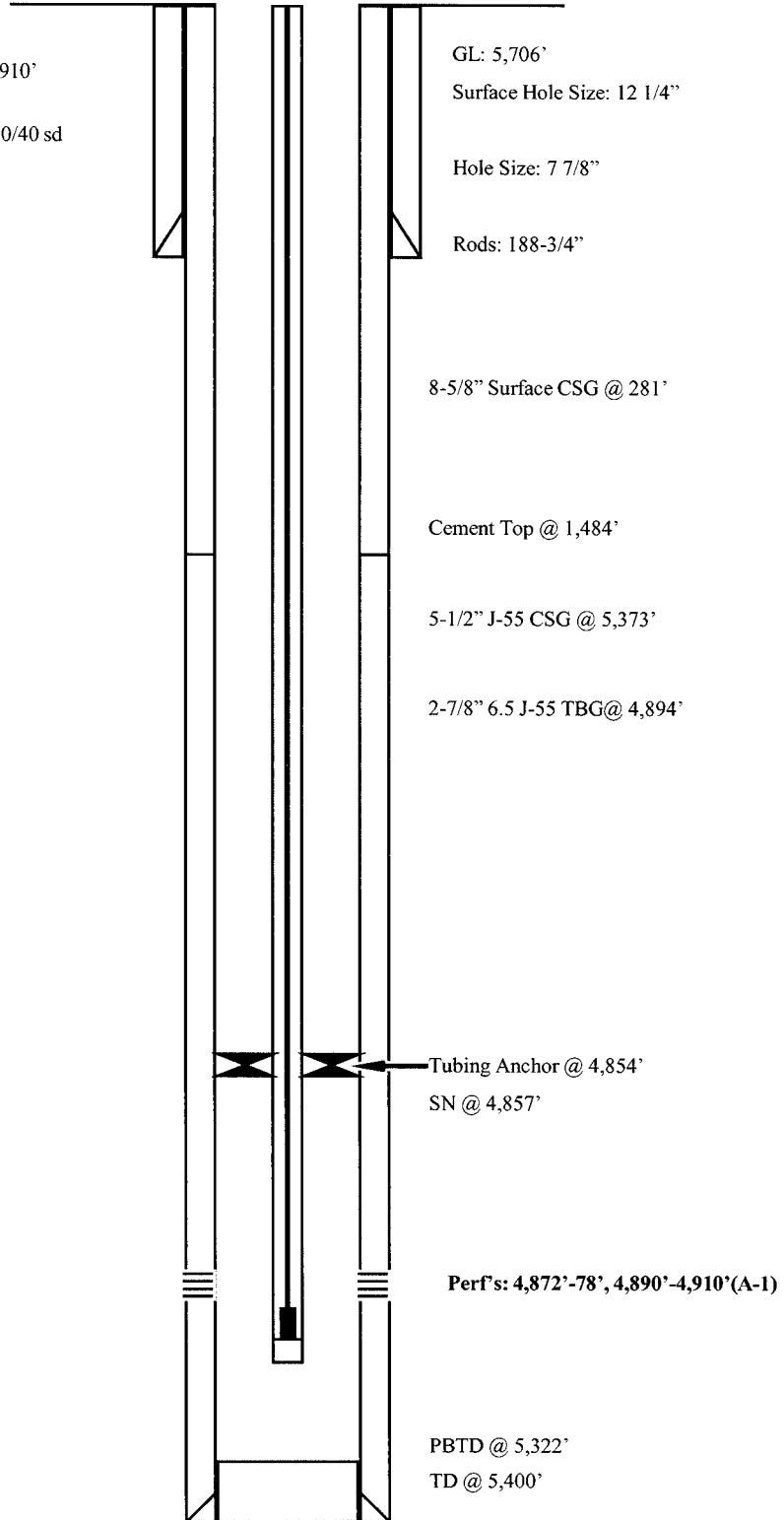
API # 43-013-30873; Lease # UTU-15855

Castle Peak Federal #7-23

Wellbore Diagram

Well History:

7-26-83 Spud Well
 8-11-83 Perf: 4,872'-4,878', 4,890'-4,910'
 Frac A-3 zone as follows:
 Totals 38,000 gal, 130,800# 20/40 sd
 Max TP 2,600 @ 31 BPM
 Avg TP 2,000 @ 31 BPM
 ISIP 2,000, after 5 min 1,450



Castle Peak Federal #7-23
 1967 FNL 1985 FEL
 SWNE Section 23-T9S-R16E
 Duchesne Co, Utah
 API #43-013-30662; Lease #U-15855

Jonah Federal 10-14-9-16

Spud Date: 5-18-05

Put on Production: 6-23-05

GL: 5607' KB: 5619'

Initial Production: 55 BOPD,
22 MCFD, 232 BWPDInjection Wellbore
DiagramSURFACE CASING

CSG SIZE: 8-5/8"

GRADE: J-55

WEIGHT: 24#

LENGTH: 7 jts. (303')

DEPTH LANDED: 314.85' KB

HOLE SIZE: 12-1/4"

CEMENT DATA: 160 sxs Class "G" cmt, est 5 bbls cmt to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"

GRADE: J-55

WEIGHT: 15.5#

LENGTH: 137 jts. (5796.74')

DEPTH LANDED: 5809.99' KB

HOLE SIZE: 7-7/8"

CEMENT DATA: 310 sxs Prem. Lite If & 400 sxs 50/50 POZ.

CEMENT TOP AT: 90'

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#

NO. OF JOINTS: 120 jts (3904')

SEATING NIPPLE: 2-7/8" (1.10')

SN LANDED AT: 3916' KB

RET HEAD AT: 3917.1'

ARROW #1 PACKER CE AT: 3922'

XO 2-3/8 x 2-7/8 J-55 AT: 3926'

TBG PUP 2-3/8 J-55 AT: 3926.5'

X/N NIPPLE AT: 3930.6'

TOTAL STRING LENGTH: EOT @ 3932.17'

FRAC JOB

6-15-05 5109-5139'

Frac LODC sand as follows:40770#s 20/40 sand in 380 bbls Lightning
17 frac fluid. Treated @ avg press of 3040 psi
w/avg rate of 24.3 BPM. ISIP 2950 psi. Calc
flush: 5107 gal. Actual flush: 4872 gal.

6-15-05 4980-5007'

Frac A3 sand as follows:110,559#s 20/40 sand in 774 bbls Lightning
17 frac fluid. Treated @ avg press of 1950 psi
w/avg rate of 24.8 BPM. ISIP 2250 psi. Calc
flush: 4978 gal. Actual flush: 4746 gal.

6-16-05 4808-4817'

Frac B2, sand as follows:40877#s 20/40 sand in 371 bbls Lightning
17 frac fluid. Treated @ avg press of 2399 psi
w/avg rate of 25.1 BPM. ISIP 2300 psi. Calc
flush: 4806 gal. Actual flush: 4536 gal.

6-16-05 3937-3946'

Frac GB2 sand as follows:29376#s 20/40 sand in 281 bbls Lightning
17 frac fluid. Treated @ avg press of 1585 psi
w/avg rate of 14.3 BPM. ISIP 2100 psi. Calc
flush: 3935 gal. Actual flush: 3864 gal.

04/24/06

Pump Change. Update rod and tubing details.

6/11/08

Pump Change. Updated rod and tubing detail

12/28/10 4055-4070'

Frac GB6 sands as follows: Frac with
46694# 20/40 sand in 262 bbls Lightning 17
fluid.

12/29/10

Re-Completion finalized – updated tbg and
rod details.

06/25/13

Convert to Injection Well

06/28/13

Conversion MIT Finalized – update tbg
detail

SN @ 3916'

Ret Head @ 3917'

Packer @ 3922'

X/N Nipple @ 3931'
EOT @ 3932'

3937-3946'

4055-4060'

4066-4070'

4653-4663'

4808-4817'

4980-5007'

5109-5113'

5131-5139'

PBSD @ 5766'
SHOE @ 5810'
TD @ 5862'PERFORATION RECORD

6-10-05	5131-5139'	4 JSPF	32 holes
6-10-05	5109-5113''	4 JSPF	16 holes
6-13-05	4980-5007'	4 JSPF	108 holes
6-13-05	4808-4817'	4 JSPF	36 holes
6-16-05	4653-4663'	4 JSPF	40 holes
6-16-05	3937-3946'	4 JSPF	36 holes
12-28-10	4066-4070'	3 JSPF	12 holes
12-28-10	4055-4060'	3 JSPF	15 holes

NEWFIELD

Jonah Federal 10-14-9-16

1730' FSL & 1820' FEL

NW/SE Section 14-T9S-R16E

Duchesne Co, Utah

API #43-013-32662; Lease #UTU-096547

LCN 07/01/13

Jonah Federal 14-14-9-16

Spud Date: 10-11-05

Put on Production: 11-22-05

GL: 5740' KB: 5752'

Injection Wellbore
DiagramSURFACE CASING

CSG SIZE: 8-5/8"

GRADE: J-55

WEIGHT: 24#

LENGTH: 7 jts. (301.68')

DEPTH LANDED: 312.58' KB

HOLE SIZE: 12-1/4"

CEMENT DATA: 160 sxs Class "G" cmt, est 5 bbls cmt to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"

GRADE: J-55

WEIGHT: 15.5#

LENGTH: 130 jts. (5761.28')

DEPTH LANDED: 5774.53' KB

HOLE SIZE: 7-7/8"

CEMENT DATA: 350 sxs Prem. Lite II mixed & 425 sxs 50/50 POZ.

CEMENT TOP AT: 260'

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#

NO. OF JOINTS: 122 jts (3961.3')

SEATING NIPPLE: 2-7/8" (1.10')

SN LANDED AT: 3971.3'

CE @ 3975.74'

TOTAL STRING LENGTH: EOT @ 3980'

Cement top @ 260'

Casing Shoe @ 313'

Packer @ 3976'

EOT @ 3980'

4044-4050'

4137-4142'

4596-4604'

4828-4839'

5050-5072'

5470-5479'

5508-5520'

PBTD @ 5770'

SHOE @ 5775'

TD @ 5800'

FRAC JOB

11-14-05 5470-5520'

Frac CP1, & CP2 sands as follows:

30835# 20/40 sand in 393 bbls Lightning 17 frac fluid. Treated @ avg press of 2008 psi w/avg rate of 25 BPM. ISIP 1850 psi. Calc flush: 5468 gal. Actual flush: 5460 gal.

11-15-05 5050-5072'

Frac A1 sands as follows:

100886# 20/40 sand in 724 bbls Lightning 17 frac fluid. Treated @ avg press of 1800 psi w/avg rate of 25.1 BPM. ISIP 2130 psi. Calc flush: 5048 gal. Actual flush: 5082 gal.

11-15-05 4828-4839'

Frac B1 sands as follows:

70362# 20/40 sand in 537 bbls Lightning 17 frac fluid. Treated @ avg press of 1905 psi w/avg rate of 25.1 BPM. ISIP 2060 psi. Calc flush: 4826 gal. Actual flush: 4872 gal.

11-15-05 4596-4604'

Frac D1 sands as follows:

28955# 20/40 sand in 336 bbls Lightning 17 frac fluid. Treated @ avg press of 1758 w/ avg rate of 14.5 BPM. ISIP 1900 psi. Calc flush: 4594 gal. Actual flush: 4518 gal.

11-15-05 4044-4142'

Frac GB4, & GB6 sands as follows:

31600# 20/40 sand in 333 bbls Lightning 17 frac fluid. Treated @ avg press of 1790 w/avg rate of 25.1 BPM. ISIP 1770 psi. Calc flush: 4042 gal. Actual flush: 3948 gal.

05/02/07

Tubing Leak - Rod & Tubing detail updated.

09/11/07

Tubing Leak - Rod & Tubing detail updated.

7-21-08

Tubing Leak. Updated rod & tubing details.

1/29/10

Parted rods. Updated rod and tubing detail.

05/04/11

Convert to Injection well

05/18/11

Conversion MIT Finalized - update tbg detailPERFORATION RECORD

11-10-05	5508-5520'	4 JSPF	48 holes
11-10-05	5470-5479'	4 JSPF	36 holes
11-14-05	5050-5072'	4 JSPF	88 holes
11-15-05	4828-4839'	4 JSPF	44 holes
11-15-05	4596-4604'	4 JSPF	32 holes
11-15-05	4137-4142'	4 JSPF	20 holes
11-15-05	4044-4050'	4 JSPF	24 holes

**Jonah Federal 14-14-9-16**

507' FSL & 1684' FWL

SE/SW Section 14-T9S-R16E

Duchesne Co, Utah

API #43-013-32697; Lease #UTU-096547

Jonah Federal 15-14-9-16

Spud Date: 5-4-05
 Put on Production: 6-10-05
 GL: 5631' KB: 5643'

Initial Production: BOPD 42,
 MCFD 13, BWPD 161

Injection Wellbore
DiagramSURFACE CASING

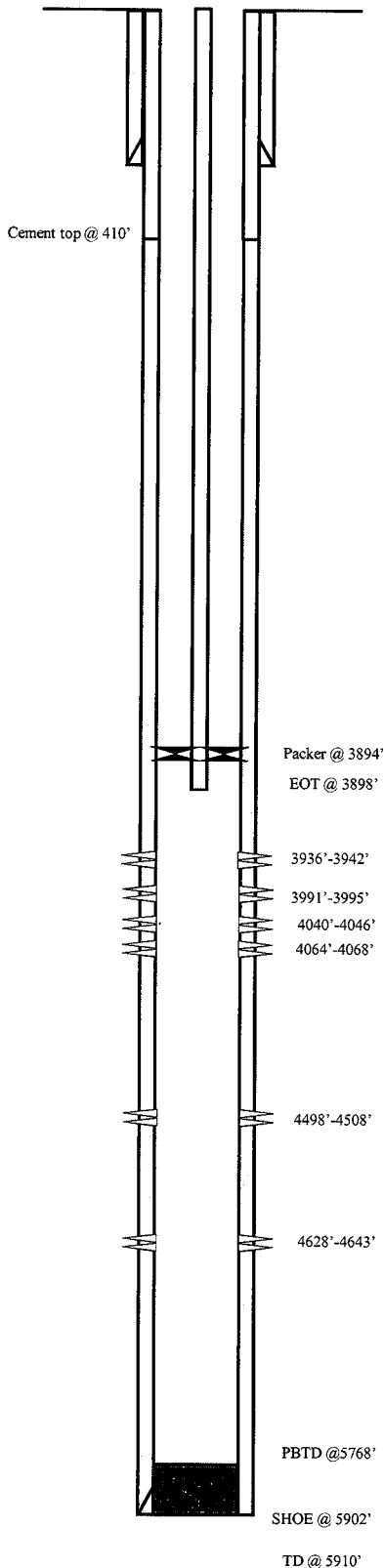
CSG SIZE: 8-5/8"
 GRADE: J-55
 WEIGHT: 24#
 LENGTH: 7 jts. (302-46')
 DEPTH LANDED: 314.31' KB
 HOLE SIZE: 12-1/4"
 CEMENT DATA: 160 sxs Class "G" cmt, est 4 bbls cmt to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"
 GRADE: J-55
 WEIGHT: 15.5#
 LENGTH: 139 jts. (5888.88')
 DEPTH LANDED: 5902.13' KB
 HOLE SIZE: 7-7/8"
 CEMENT DATA: 300 sxs Prem. Lite II & 400 sxs 50/50 POZ.
 CEMENT TOP AT: 410'

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55
 NO. OF JOINTS: 116 jts (3877.64')
 SEATING NIPPLE: 2-7/8" (1.10')
 SN LANDED AT: 3889.64' KB
 TOTAL STRING LENGTH: EOT @ 3898.24' KB

FRAC JOB

6-1-05	4628-4643'	Frac C sand as follows: 57,701#'s 20/40 sand in 427 bbls Lightning 17 frac fluid. Treated @ avg press of 2180 psi w/avg rate of 24.5 BPM. ISIP 3700 psi. Screened out short of flush.
6-2-05	4498-4508'	Frac D1 sand as follows: 69,795#'s 20/40 sand in 533 bbls Lightning 17 frac fluid. Treated @ avg press of 1589 psi w/avg rate of 24.7 BPM. ISIP 2100 psi. Calc flush: 4496 gal. Actual flush: 4200 gal.
6-2-05	4040-4068'	Frac GB6 sand as follows: 28,155#'s 20/40 sand in 275 bbls Lightning 17 frac fluid. Treated @ avg press of 2233 psi w/avg rate of 24.6 BPM. ISIP 3450 psi. Screened out short of flush.
6-6-05	3936-3942'	Frac GB2 & GB4 sand as follows: 29,409#'s 20/40 sand in 300 bbls Lightning 17 frac fluid. Treated @ avg press of 1930 psi w/avg rate of 24.4 BPM. ISIP 1900 psi. Calc flush: 3934 gal. Actual flush: 3881 gal.
11/2/06		Well converted to an Injection well.
11/21/06		MIT completed and submitted.

PERFORATION RECORD

5-25-05	4628-4643'	4 JSPF	60 holes
6-2-05	4498-4508'	4 JSPF	40 holes
6-2-05	4040-4046'	4 JSPF	24 holes
6-2-05	4064-4068'	4 JSPF	16 holes
6-2-05	3991-3995'	4 JSPF	16 holes
6-2-05	3936-3942'	4 JSPF	24 holes



Jonah Federal 15-14-9-16
 610' FSL & 2096' FEL
 SW/SE Section 14-T9S-R16E
 Duchesne Co, Utah
 API #43-013-32689; Lease #UTU-096547

Spud Date: 10-14-05
 Put on Production: 11-14-05
 GL: 5626' KB: 5638'

Jonah Federal 16-14-9-16

Injection Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"
 GRADE: J-55
 WEIGHT: 24#
 LENGTH: 7 jts (302.62')
 DEPTH LANDED: 310.02' KB
 HOLE SIZE: 12-1/4"
 CEMENT DATA: 160 sxs Class "G" cmt, est 4 bbls cmt to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"
 GRADE: J-55
 WEIGHT: 15.5#
 LENGTH: 130 jts. (5790.42')
 DEPTH LANDED: 5803.67' KB
 HOLE SIZE: 7-7/8"
 CEMENT DATA: 300 sxs Prem. Lite II mixed & 425 sxs 50/50 POZ.
 CEMENT TOP AT: 270'

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#
 NO. OF JOINTS: 123 jts (3956.9')
 SEATING NIPPLE: 2-7/8" (1.10')
 SN LANDED AT: 3968.9' KB
 ON/OFF TOOL AT: 3970.0'
 ARROW #1 PACKER CE AT: 3975.9'
 XO 2-3/8 x 2-7/8 J-55 AT: 3979.0'
 TBG PUP 2-3/8 J-55 AT: 3979.5'
 X/N NIPPLE AT: 3983.7'
 TOTAL STRING LENGTH: EOT @ 3985.19'

FRAC JOB

11-08-05 5374-5380' **Frac CP2 sands as follows:**
 24617# 20/40 sand in 360 bbls Lightning 17
 frac fluid. Treated @ avg press of 2689 psi
 w/avg rate of 24.8 BPM. ISIP 3370 psi. Calc
 flush: 5372 gal. Actual flush: 4956 gal.

11-08-05 5122-5132' **Frac LODC sands as follows:**
 34329# 20/40 sand in 394 bbls Lightning 17
 frac fluid. Treated @ avg press of 2632 psi
 w/avg rate of 24.8 BPM. ISIP 2720 psi. Calc
 flush: 5120 gal. Actual flush: 4830 gal.

11-09-05 4916-4954' **Frac A1, & A3 sands as follows:**
 75312# 20/40 sand in 591 bbls Lightning 17
 frac fluid. Treated @ avg press of 1787 psi
 w/avg rate of 24.9 BPM. ISIP 2200 psi. Calc
 flush: 4914 gal. Actual flush: 3906 gal.

11-09-5 4036-4042' **Frac GB6 sands as follows:**
 25272# 20/40 sand in 301 bbls Lightning 17
 frac fluid. Treated @ avg press of 2043 w/
 avg rate of 24.7 BPM. ISIP 1830 psi. Calc
 flush: 4034 gal. Actual flush: 3948 gal.

6/8/09 **Pump Change.** Updated rod & tubing details.
 12/19/12 **Convert to Injection Well**
 12/20/12 **Conversion MIT Finalized** – update tbg
 detail

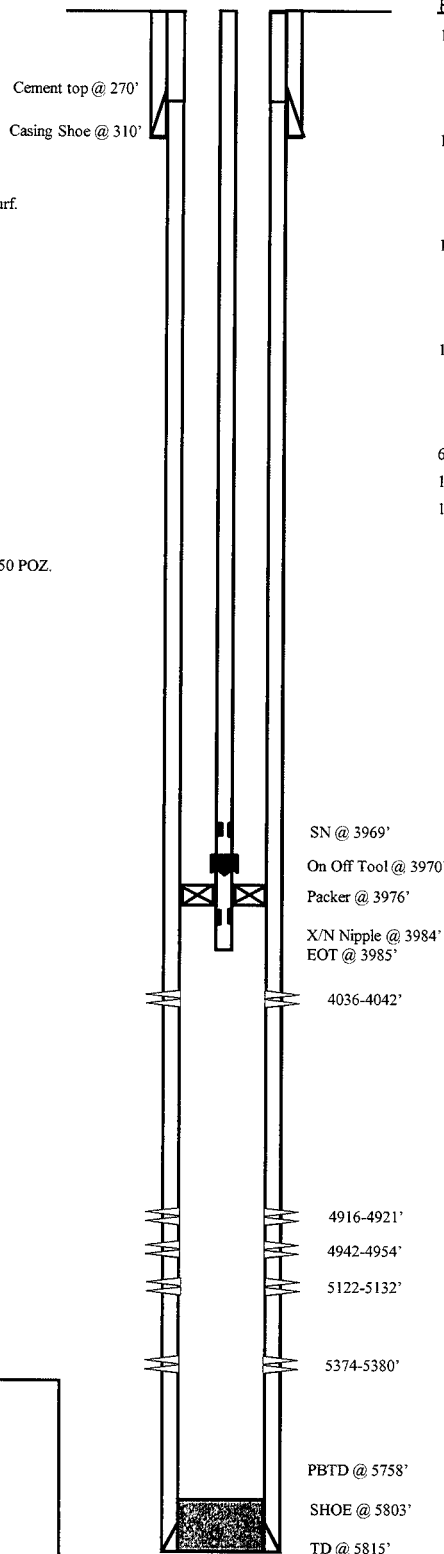
PERFORATION RECORD

11-01-05	5374-5380'	4 JSPF	24 holes
11-08-05	5122-5132'	4 JSPF	40 holes
11-08-05	4942-4954'	4 JSPF	48 holes
11-08-05	4916-4921'	4 JSPF	20 holes
11-09-05	4036-4042'	4 JSPF	24 holes

NEWFIELD

Jonah Federal 16-14-9-16

657' FSL & 758' FEL
 SE/SE Section 14-T9S-R16E
 Duchesne Co, Utah
 API #43-013-32698; Lease #UTU-096547



NEWFIELD

GMBU C-23-9-16

Monument Butte - Duchesne County; Utah, USA

Surface Legal Location: SE/SW Section 14, T9S, R16E; 539' FSL & 1,695' FWL

Elevation: 5746' GL + 13' KB

API Number: 43-013-51682; Lease Number: UTU-096547

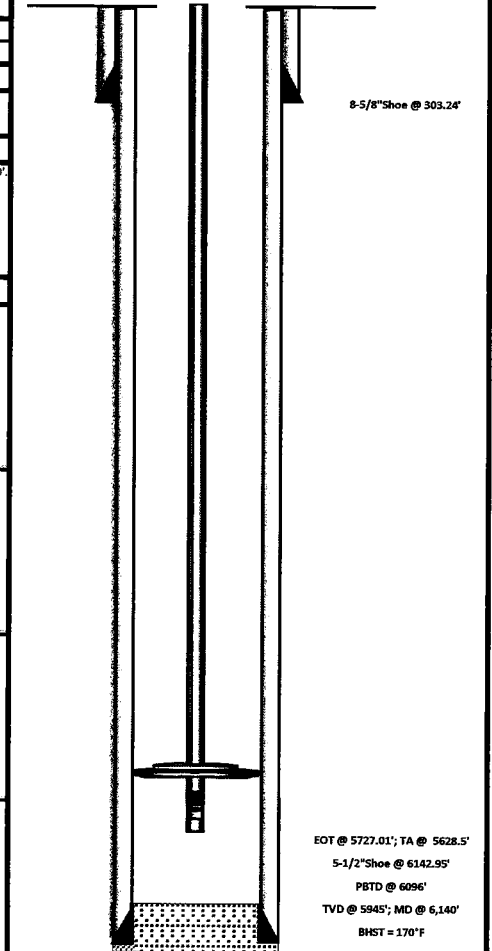
Sam Styles

PFM 1/21/14

Spud Date: 5/30/13

PoP Date: 7/12/2013

Casing Detail	Casing	Top	Bottom	Size	Wt.	Grade	Drift	Burst	Collapse	ID	gal/ft	Coupling	Hole
	Surf	13'	303'	8-5/8"	24#	J-55	7.972"	2,950	1,370	8.097"	2.6749	STC	12.250
	Prod	13'	6,143'	5-1/2"	15.5#	J-55	4.825"	4,810	4,040	4.950"	0.9997	LTC	7.875
TSG Detail	Top	Bottom	Coupling	Size	Wt.	Grade	Drift	Burst	Collapse	ID	Pecker/Hanger		
	13'	5,727'	8EUE	2-7/8"	6.5#	J-55	2.347"	7,260	7,680	2.441"	Tubing Anchor Set @	5,629'	
ROD DETAIL	Component			Top	Bottom	Size	Grade	Length	Count	Pump			
	Polish Rod			0'	30'	1 1/2"	Spray Metal	30	1	Insert Pump: 2.5" Max ID x 1.75" Plunger RHAC @ 5650'			
	Pony Rod			30'	50'	7/8"	Tenaris D78	20	1				
	4per Guided Rod			50'	1,800'	7/8"	Tenaris D78	1750	70				
	4per Guided Rod			1,800'	4,900'	3/4"	Tenaris D78	3100	124				
	8per Guided Rod			4,900'	5,650'	7/8"	Tenaris D78	750	30				
Stage	Top	Bottom	SPF	EHD	Date	Frac Summary							
4	4,155'	4,156'	2	0.34	7/1/2013	Formation:	GB-6	GB-4					
	4,163'	4,165'	2	0.34	7/1/2013	20/40 White:	119,460 lbs	15% HCl:	0 gals				
	4,170'	4,171'	2	0.34	7/1/2013	Slickwater:	4,674 gals	17# Delta 140:	37,287 gals				
	4,210'	4,212'	2	0.34	7/1/2013	FG=	0.870 psi/ft	Load to Recover:	41,961 gals				
	4,214'	4,215'	2	0.34	7/1/2013			Max STP:	3,311 psi				
	4,225'	4,227'	2	0.34	7/1/2013								
	4,246'	4,248'	2	0.34	7/1/2013								
3	0'	0'	2	-	-	Formation:	D-3	D-1					
	4,713'	4,714'	2	0.34	7/1/2013	20/40 White:	85,200 lbs	15% HCl:	500 gals				
	4,716'	4,718'	2	0.34	7/1/2013	Slickwater:	5,320 gals	17# Delta 140:	24,902 gals				
	4,722'	4,723'	2	0.34	7/1/2013	FG=	0.840 psi/ft	Load to Recover:	30,222 gals				
	4,729'	4,730'	2	0.34	7/1/2013			Max STP:	2,799 psi				
	4,733'	4,735'	2	0.34	7/1/2013								
	4,803'	4,807'	2	0.34	7/1/2013								
2	0'	0'	2	-	-	Formation:	A-3	A-1					
	0'	0'	2	-	-	20/40 White:	65,200 lbs	15% HCl:	500 gals				
	0'	0'	2	-	-	Slickwater:	5,696 gals	17# Delta 140:	19,442 gals				
	0'	0'	2	-	-	FG=	0.810 psi/ft	Load to Recover:	25,638 gals				
	5,094'	5,097'	2	0.34	7/1/2013			Max STP:	2,692 psi				
	5,211'	5,213'	2	0.34	7/1/2013								
	5,215'	5,218'	2	0.34	7/1/2013								
1	0'	0'	3	-	-	Formation:	CP-2						
	0'	0'	3	-	-	20/40 White:	15,300 lbs	15% HCl:	750 gals				
	0'	0'	3	-	-	Slickwater:	6,192 gals	17# Delta 140:	6,279 gals				
	0'	0'	3	-	-	FG=	0.770 psi/ft	Load to Recover:	13,221 gals				
	0'	0'	3	-	-			Max STP:	3,490 psi				
	0'	0'	3	-	-								
	5,633'	5,639'	3	0.34	7/1/2013								
CEMENT	Surf	On 5/31/13 cement w/Pro Petro w/160 sks of class G+2%KC+.25#CF mixed @ 15.8ppg and 1.17 yield. Returned 3 bbls to pit, bump plug to 600psi											
	Prod	On 6/19/13 cement production casing W/ 260 sx lead 11.0 ppg cement followed by 470 sx 14.4 ppg tail cement Bumped plug floats held. 25 bbls back to reserve pit. TOC @ 50'											



EOT @ 5727.01'; TA @ 5628.5'
5-1/2\"Shoe @ 6142.95'
PBTD @ 6096'
TVD @ 5945'; MD @ 6,140'
BHST = 170°F

NEWFIELD



GMBU R-14-9-16

Monument Butte - Duchesne County; Utah, USA

Surface Legal Location: SE/SW Section 14, T9S, R16E; 540' FSL & 1,674' FWL

Elevation: 5746' GL + 13' KB

API Number: 43-013-51677; Lesse Number: UTU-096547

Sam Styles

PFM 1/21/14

Spud Date: 5/30/13

Pop Date: 7/12/2013

POP Date: 7/12/2013

Casing Detail	Casing	Top	Bottom	Size	Wt.	Grade	Drift	Burst	Collapse	ID	gal/ft	Coupling	Hole					
	Surf	13'	303'	8-5/8"	24#	J-55	7.972"	2,950	1,370	8.097"	2.6749	STC	12.250					
TBC Detail	Prod	Top	Bottom	Coupling	Size	Wt.	Grade	Drift	Burst	Collapse	ID							
		13'	5,855'	8EUE	2-7/8"	6.5#	J-55	2.347"	7,260	7,680	2.441"	Tubing Anchor Set @	5,757'					
ROD DETAIL	Component		Top	Bottom	Size	Grade	Length	Count	Pump									
	Polish Rod		0'	30'	1 1/2"	Spray Metal	30	1	Insert Pump: 2.5" Max ID x 1.75" Plunger RHAC @ 5786'									
	Pony Rod		30'	36'	7/8"	Tenaris D78	6	1										
	4per Guided Rod		36'	1,736'	7/8"	Tenaris D78	1700	68										
	4per Guided Rod		1,736'	5,036'	3/4"	Tenaris D78	3300	132										
	8per Guided Rod		5,036'	5,786'	7/8"	Tenaris D78	750	30										
Stage	Top	Bottom	SPF	EHD	Date	Frac Summary												
4	0'	0'	2	-	-	Formation:	GB-6	GB-4										
	0'	0'	2	-	-	20/40 White:	69,120 lbs	15% HCl:	0 gals									
	0'	0'	2	-	-	Slickwater:	4,567 gals	17# Delta 140:	20,459 gals									
	4,243'	4,246'	2	0.34	7/1/2013	FG=	0.870 psi/ft	Load to Recover:	25,026 gals									
	4,251'	4,252'	2	0.34	7/1/2013			Max STP:	2,779 psi									
	4,261'	4,263'	2	0.34	7/1/2013													
	4,347'	4,352'	2	0.34	7/1/2013													
3	0'	0'	2	-	-	Formation:	B-2											
	0'	0'	2	-	-	20/40 White:	55,520 lbs	15% HCl:	500 gals									
	0'	0'	2	-	-	Slickwater:	5,662 gals	17# Delta 140:	16,891 gals									
	0'	0'	2	-	-	FG=	0.840 psi/ft	Load to Recover:	23,053 gals									
	5,132'	5,134'	2	0.34	7/1/2013			Max STP:	2,764 psi									
	5,137'	5,139'	2	0.34	7/1/2013													
	5,141'	5,145'	2	0.34	7/1/2013													
2	0'	0'	3	-	-	Formation:	A-3											
	0'	0'	3	-	-	20/40 White:	50,300 lbs	15% HCl:	500 gals									
	0'	0'	3	-	-	Slickwater:	5,524 gals	17# Delta 140:	15,417 gals									
	0'	0'	3	-	-	FG=	0.860 psi/ft	Load to Recover:	21,441 gals									
	0'	0'	3	-	-			Max STP:	3,047 psi									
	5,340'	5,342'	3	0.34	7/1/2013													
	5,345'	5,349'	3	0.34	7/1/2013													
1	0'	0'	3	-	-	Formation:	CP-1											
	0'	0'	3	-	-	20/40 White:	30,200 lbs	15% HCl:	750 gals									
	0'	0'	3	-	-	Slickwater:	5,614 gals	17# Delta 140:	10,059 gals									
	0'	0'	3	-	-	FG=	0.760 psi/ft	Load to Recover:	16,423 gals									
	0'	0'	3	-	-			Max STP:	3,117 psi									
	5,767'	5,768'	3	0.34	7/1/2013													
	5,770'	5,774'	3	0.34	7/1/2013													
CEMENT	Surf	On 5/30/13 cement w/Pro Petro w/160 sks of class G+2%kcl+.25#CF mixed @ 15.8ppg and 1.17 yield. Returned 5bbls to pit, bump plug to 500psi																
	Prod	On 6/13/13 cement production casing W/ 260 sx lead 11.0 ppg cement followed by 440 sx 14.4 ppg tail cement Bumped plug w/ 500 psi over floats held. 15 bbls back to reserve pit. TOC @ 52'.																

8-5/8"Shoe @ 303.26'

EOT @ 5855.08'; TA @ 5756.5'

5-1/2"Shoe @ 6242.02'

P8TD @ 6166.0'

TVD @ 5984'; MD @ 6,250'

BHST = 170°F

8-5/8"Shoe @ 303.26'

EOT @ 5855.00'; TA @ 5756.5'
5-1/2"Shoe @ 6242.02'
PBTD @ 6166.0'
TVD @ 5984'; MD @ 6,250'
BHST = 170°F

Well Name: GMBU G-23-9-16

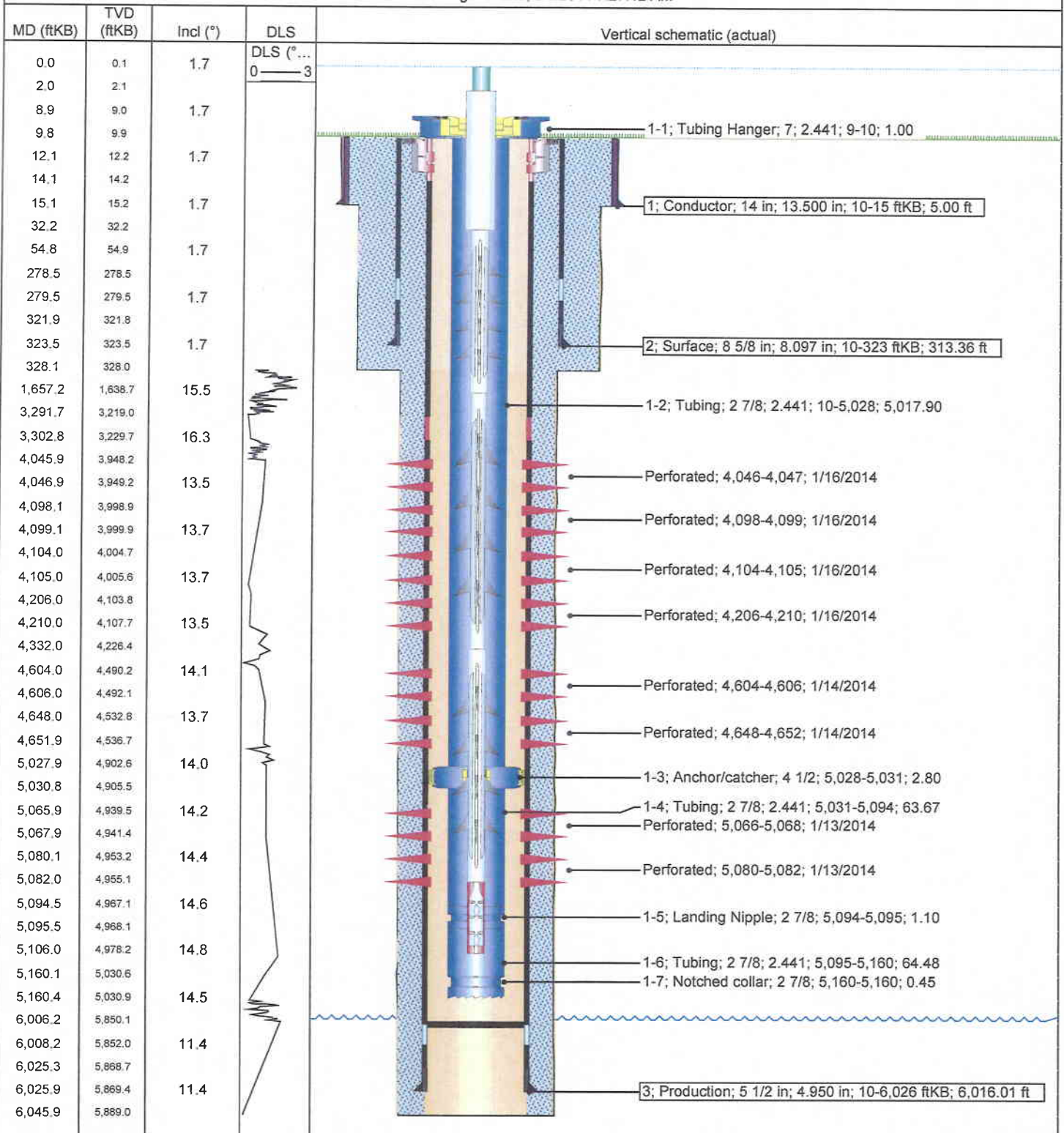
Surface Legal Location NWNW 527 FNL 726 FWL Sec 23 T9S R16E Mer SLB			API/UWI 43013516810000	Well RC 500334455	Lease UTU15855	State/Province Utah	Field Name GMBU CTB5	County Duchesne
Spud Date 12/14/2013	Rig Release Date 12/31/2013	On Production Date 1/24/2014	Original KB Elevation (ft) 5,728	Ground Elevation (ft) 5,718	Total Depth All (TVD) (ftKB) Original Hole - 5,889.0	PBTD (All) (ftKB) Original Hole - 6,006.3		

Most Recent Job

Job Category Initial Completion	Primary Job Type Fracture Treatment	Secondary Job Type P&P	Job Start Date 1/13/2014	Job End Date 1/21/2014
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TD: 6,046.0

Slant - Original Hole, 3/7/2014 7:27:12 AM





Schematic

43-013-51676

Well Name: GMBU X-14-9-16

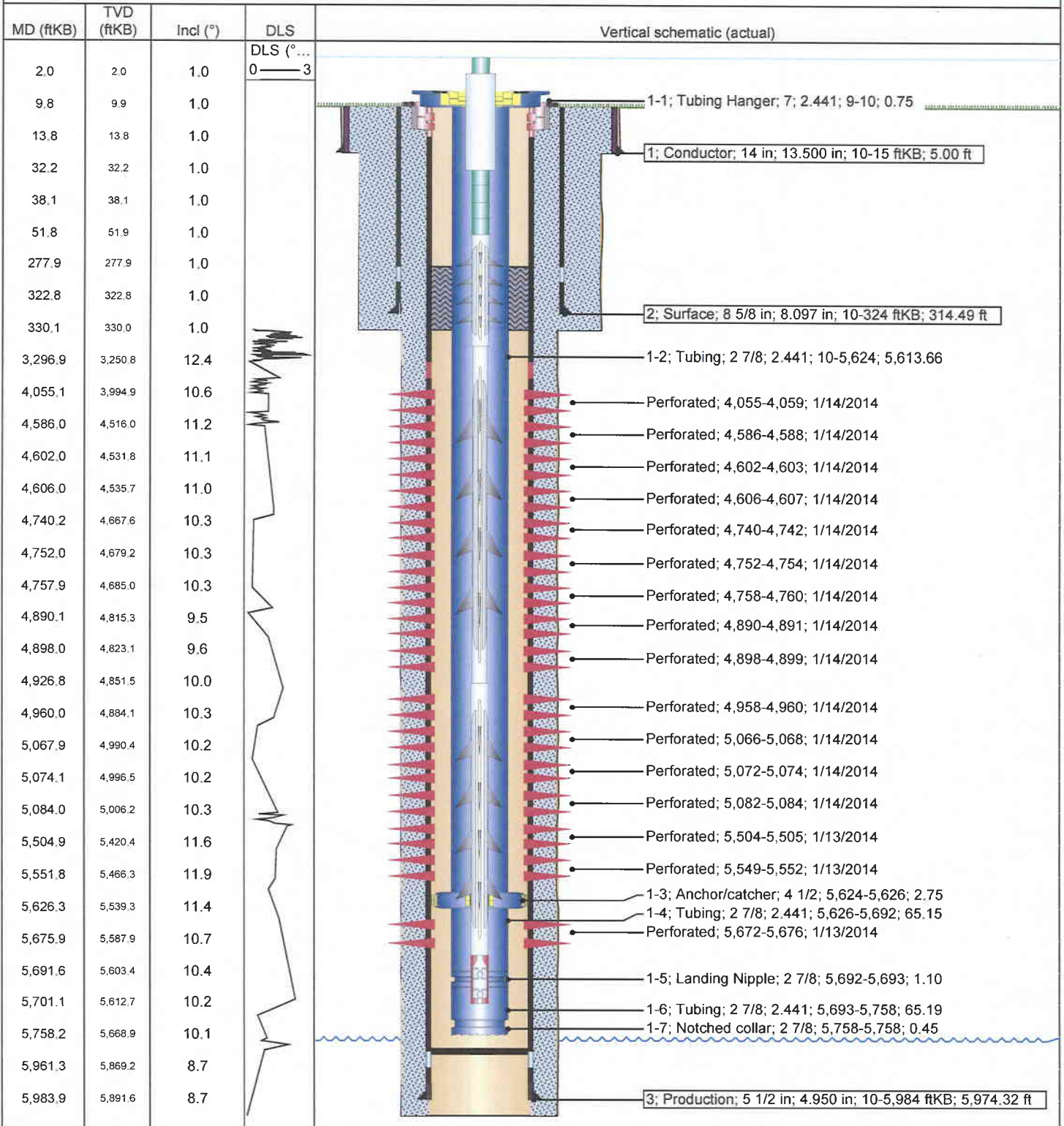
Surface Legal Location NWNW 518 FNL 707 FWL Sec 23 T9S R16E Mer SLB				API/UWI 43013516760000	Well RC 500346788	Lease UTU15855	State/Province Utah	Field Name GMBU CTB5	County Duchesne
Spud Date 12/13/2013	Rig Release Date 12/28/2013	On Production Date 1/24/2014	Original KB Elevation (ft) 5,728	Ground Elevation (ft) 5,718	Total Depth All (TVD) (ftKB) Original Hole - 5,901.5		PBD (All) (ftKB) Original Hole - 5,959.6		

Most Recent Job

Job Category Initial Completion	Primary Job Type Fracture Treatment	Secondary Job Type P&P	Job Start Date 1/13/2014	Job End Date 1/24/2014
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TD: 5,994.0

Slant - Original Hole, 4/7/2014 11:33:43 AM



Multi-Chem Analytical Laboratory

1553 East Highway 40

Vernal, UT 84078

Units of Measurement: **Standard****Water Analysis Report**Production Company: **NEWFIELD PRODUCTION**Well Name: **FED 2-23-9-16**Sample Point: **Wellhead**Sample Date: **6/17/2013**Sample ID: **WA-245620**Sales Rep: **Michael McBride**Lab Tech: **Layne Wilkerson**Scaling potential predicted using ScaleSoftPitzer from
Brine Chemistry Consortium (Rice University)

Sample Specifics		Analysis @ Properties in Sample Specifics			
		Cations		Anions	
Test Date:	6/21/2013	mg/L		mg/L	
System Temperature 1 (°F):	120	Sodium (Na):	6851.32	Chloride (Cl):	10000.00
System Pressure 1 (psig):	60	Potassium (K):	28.16	Sulfate (SO ₄):	10.00
System Temperature 2 (°F):	210	Magnesium (Mg):	3.01	Bicarbonate (HCO ₃):	1098.00
System Pressure 2 (psig):	60	Calcium (Ca):	12.28	Carbonate (CO ₃):	
Calculated Density (g/ml):	1.010	Strontium (Sr):	2.68	Acetic Acid (CH ₃ COO)	
pH:	7.70	Barium (Ba):	3.16	Propionic Acid (C ₂ H ₅ COO)	
Calculated TDS (mg/L):	18030.81	Iron (Fe):	15.26	Butanoic Acid (C ₃ H ₇ COO)	
CO ₂ in Gas (%):		Zinc (Zn):	0.11	Isobutyric Acid ((CH ₃) ₂ CHCOO)	
Dissolved CO ₂ (mg/L):	16.00	Lead (Pb):	0.00	Fluoride (F):	
H ₂ S in Gas (%):		Ammonia NH ₃ :		Bromine (Br):	
H ₂ S in Water (mg/L):	10.00	Manganese (Mn):	0.37	Silica (SiO ₂):	6.46

Notes:**B=5.06**

(PTB = Pounds per Thousand Barrels)

		Calcium Carbonate		Barium Sulfate		Iron Sulfide		Iron Carbonate		Gypsum CaSO ₄ 2H ₂ O		Celestite SrSO ₄		Halite NaCl		Zinc Sulfide	
Temp (°F)	PSI	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
210.00	60.00	0.58	7.24	0.00	0.00	3.39	8.36	2.67	11.07	0.00	0.00	0.00	0.00	0.00	0.00	7.99	0.06
200.00	60.00	0.52	6.69	0.00	0.00	3.36	8.36	2.61	11.06	0.00	0.00	0.00	0.00	0.00	0.00	8.06	0.06
190.00	60.00	0.45	6.08	0.00	0.00	3.34	8.36	2.55	11.05	0.00	0.00	0.00	0.00	0.00	0.00	8.13	0.06
180.00	60.00	0.39	5.42	0.00	0.00	3.31	8.35	2.48	11.05	0.00	0.00	0.00	0.00	0.00	0.00	8.21	0.06
170.00	60.00	0.32	4.71	0.00	0.00	3.29	8.35	2.41	11.04	0.00	0.00	0.00	0.00	0.00	0.00	8.29	0.06
160.00	60.00	0.26	3.95	0.00	0.00	3.28	8.35	2.34	11.03	0.00	0.00	0.00	0.00	0.00	0.00	8.38	0.06
150.00	60.00	0.20	3.17	0.00	0.00	3.28	8.34	2.27	11.01	0.00	0.00	0.00	0.00	0.00	0.00	8.48	0.06
140.00	60.00	0.15	2.35	0.00	0.00	3.28	8.34	2.20	11.00	0.00	0.00	0.00	0.00	0.00	0.00	8.59	0.06
130.00	60.00	0.09	1.52	0.00	0.00	3.28	8.34	2.13	10.98	0.00	0.00	0.00	0.00	0.00	0.00	8.70	0.06
120.00	60.00	0.04	0.69	0.00	0.00	3.30	8.35	2.05	10.95	0.00	0.00	0.00	0.00	0.00	0.00	8.83	0.06

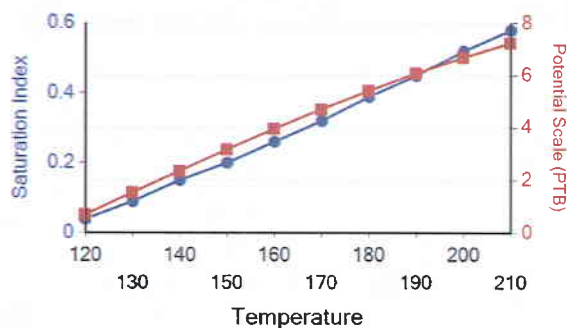
Water Analysis Report

Temp (°F)	PSI	Hemihydrate CaSO ₄ · 0.5H ₂ O		Anhydrate CaSO ₄		Calcium Fluoride		Zinc Carbonate		Lead Sulfide		Mg Silicate		Ca Mg Silicate		Fe Silicate	
		SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
210.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.54	0.05	0.00	0.00	0.08	0.30	0.00	0.00	8.70	7.00
200.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.45	0.05	0.00	0.00	0.00	0.00	0.00	0.00	8.31	7.00
190.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.04	0.00	0.00	0.00	0.00	0.00	0.00	7.91	7.00
180.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.03	0.00	0.00	0.00	0.00	0.00	0.00	7.51	6.99
170.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.02	0.00	0.00	0.00	0.00	0.00	0.00	7.11	6.99
160.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.71	6.97
150.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.31	6.95
140.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.91	6.92
130.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.52	6.87
120.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.13	6.79

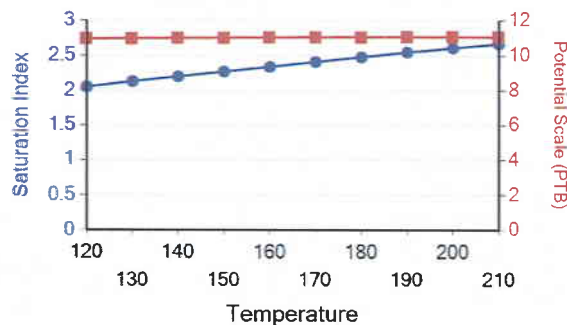
These scales have positive scaling potential under initial temperature and pressure: Calcium Carbonate Iron Sulfide Iron Carbonate Zinc Sulfide Zinc Carbonate Mg Silicate Fe Silicate

These scales have positive scaling potential under final temperature and pressure: Calcium Carbonate Iron Sulfide Iron Carbonate Zinc Sulfide Fe Silicate

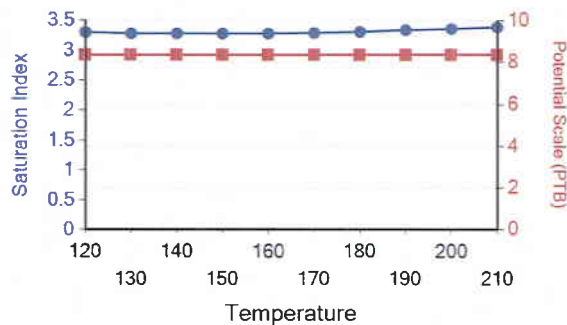
Calcium Carbonate



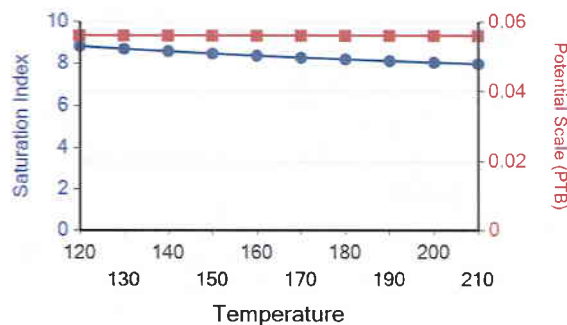
Iron Carbonate



Iron Sulfide



Zinc Sulfide



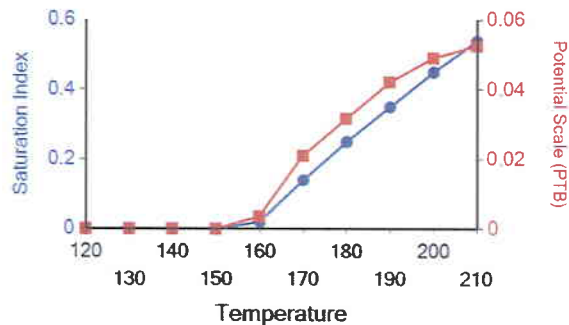
Multi-Chem Analytical Laboratory

1553 East Highway 40

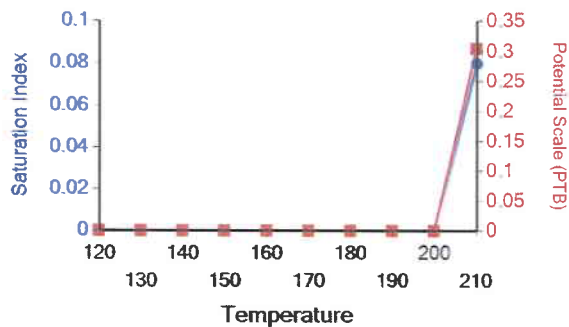
Vernal, UT 84078

Water Analysis Report

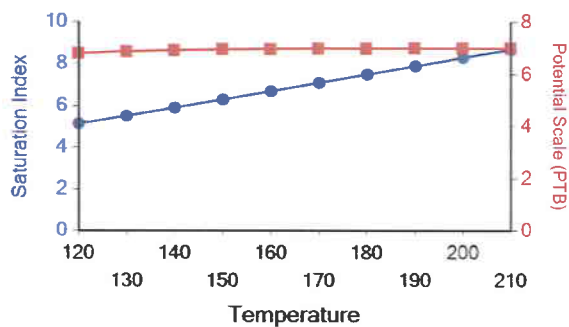
Zinc Carbonate



Mg Silicate



Fe Silicate



Multi-Chem Analytical Laboratory

1553 East Highway 40

Vernal, UT 84078

Units of Measurement: **Standard****Water Analysis Report**Production Company: **NEWFIELD PRODUCTION**Well Name: **BELUGA INJECTION**Sample Point: **After Filters**Sample Date: **11/28/2012**Sample ID: **WA-228948**Sales Rep: **Michael McBride**Lab Tech: **Gary Peterson**

Scaling potential predicted using ScaleSoftPitzer from
 Brine Chemistry Consortium (Rice University)

Sample Specifics		Analysis @ Properties in Sample Specifics			
Test Date:	12/5/2012	Cations	mg/L	Anions	mg/L
System Temperature 1 (°F):	120.00	Sodium (Na):	2814.83	Chloride (Cl):	4000.00
System Pressure 1 (psig):	60.0000	Potassium (K):	20.00	Sulfate (SO ₄):	460.00
System Temperature 2 (°F):	210.00	Magnesium (Mg):	47.00	Bicarbonate (HCO ₃):	512.00
System Pressure 2 (psig):	60.0000	Calcium (Ca):	79.00	Carbonate (CO ₃):	
Calculated Density (g/ml):	1.003	Strontium (Sr):		Acetic Acid (CH ₃ COO)	
pH:	7.40	Barium (Ba):	0.14	Propionic Acid (C ₂ H ₅ COO)	
Calculated TDS (mg/L):	7933.86	Iron (Fe):	0.17	Butanoic Acid (C ₃ H ₇ COO)	
CO ₂ in Gas (%):		Zinc (Zn):	0.02	Isobutyric Acid ((CH ₃) ₂ CHCOO)	
Dissolved CO ₂ (mg/L):	13.00	Lead (Pb):	0.00	Fluoride (F):	
H ₂ S in Gas (%):		Ammonia NH ₃ :		Bromine (Br):	
H ₂ S in Water (mg/L):	7.00	Manganese (Mn):	0.70	Silica (SiO ₂):	

Notes:**11:30**

(PTB = Pounds per Thousand Barrels)

		Calcium Carbonate		Barium Sulfate		Iron Sulfide		Iron Carbonate		Gypsum CaSO ₄ ·2H ₂ O		Celestite SrSO ₄		Halite NaCl		Zinc Sulfide	
Temp (°F)	PSI	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
210.00	60.00	0.96	36.46	0.00	0.00	1.15	0.09	0.30	0.06	0.00	0.00	0.00	0.00	0.00	0.00	7.08	0.01
200.00	60.00	0.89	33.50	0.00	0.00	1.11	0.09	0.22	0.05	0.00	0.00	0.00	0.00	0.00	0.00	7.13	0.01
190.00	60.00	0.81	30.53	0.00	0.00	1.06	0.08	0.15	0.04	0.00	0.00	0.00	0.00	0.00	0.00	7.19	0.01
180.00	60.00	0.73	27.58	0.00	0.00	1.03	0.08	0.07	0.02	0.00	0.00	0.00	0.00	0.00	0.00	7.25	0.01
170.00	60.00	0.66	24.68	0.02	0.00	0.99	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.32	0.01
160.00	60.00	0.59	21.85	0.05	0.01	0.97	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.40	0.01
150.00	60.00	0.52	19.12	0.08	0.01	0.95	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.48	0.01
140.00	60.00	0.45	16.50	0.12	0.02	0.93	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.57	0.01
130.00	60.00	0.39	14.02	0.17	0.03	0.93	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.67	0.01
120.00	60.00	0.33	11.69	0.23	0.04	0.93	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.79	0.01

Multi-Chem Analytical Laboratory

1553 East Highway 40

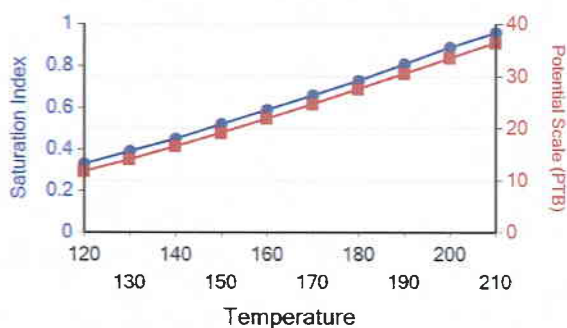
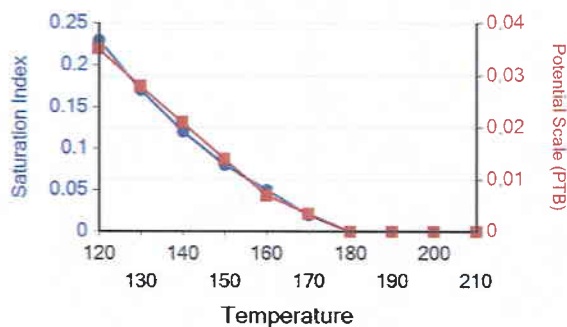
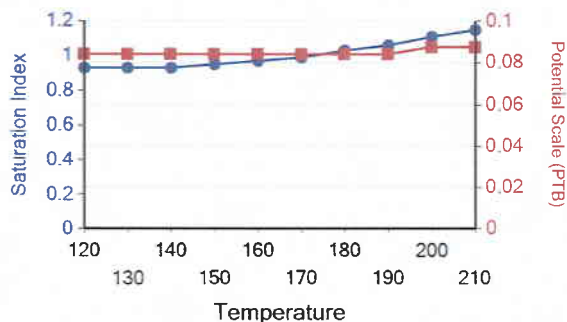
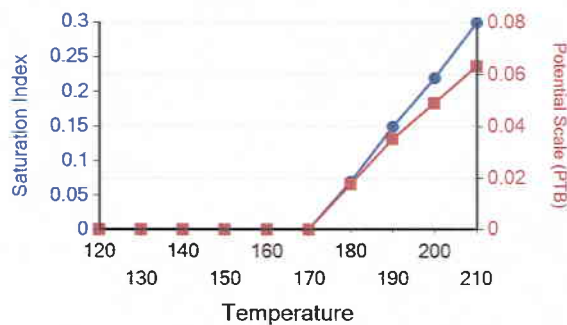
Vernal, UT 84078

Water Analysis Report

Temp (°F)	PSI	Hemihydrate CaSO ₄ · 0.5H ₂ O		Anhydrate CaSO ₄		Calcium Fluoride		Zinc Carbonate		Lead Sulfide		Mg Silicate		Ca Mg Silicate		Fe Silicate	
		SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
210.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
190.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

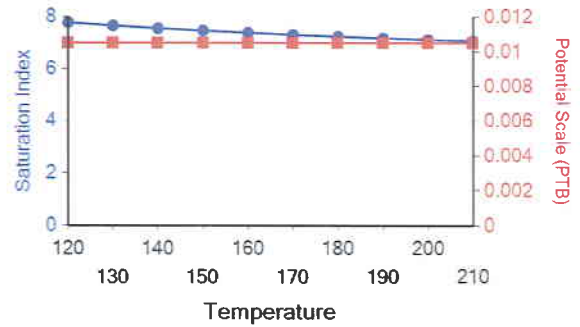
These scales have positive scaling potential under initial temperature and pressure: Calcium Carbonate Iron Sulfide Iron Carbonate Zinc Sulfide

These scales have positive scaling potential under final temperature and pressure: Calcium Carbonate Barium Sulfate Iron Sulfide Zinc Sulfide

Calcium Carbonate**Barium Sulfate****Iron Sulfide****Iron Carbonate**

Water Analysis Report

Zinc Sulfide



Attachment "G"

Federal #2-23-9-16
Proposed Maximum Injection Pressure

Frac Interval (feet)		Avg. Depth (feet)	ISIP (psi)	Calculated Frac Gradient (psi/ft)	Pmax
Top	Bottom				
4910	4938	4924	1809	0.80	1777
4621	4629	4625	1806	0.82	1776 ←
4493	4500	4497	1971	0.87	1942
				Minimum	<u>1776</u>

Calculation of Maximum Surface Injection Pressure

$P_{max} = (\text{Frac Grad} - (0.433 \times 1.015)) \times \text{Depth of Top Perf}$
where pressure gradient for the fresh water is .433 psi/ft and
specific gravity of the injected water is 1.015.

$\text{Frac Gradient} = (\text{ISIP} + (0.433 \times \text{Top Perf.})) / \text{Top Perf.}$

Please note: These are existing perforations; additional perforations may be added during the actual conversion procedure.

Daily Activity Report

Format For Sundry

FEDERAL 2-23-9-16**12/1/2007 To 4/29/2008****1/31/2008 Day: 1****Completion**

Rigless on 1/30/2008 - Install 5M frac head. NU 6" 5M Cameron BOP. RU H/O truck & pressure test casing, blind rams, frac head & casing valves to 4500 psi. RU Perforators LLC WLT w/ mast & run CBL under pressure. WLTD @ 5738' & cement top @ 137'. Perforate stage #1. A1 sds @ 4910-4938' w/ 3 1/8" slick guns (19 gram, .49" HE, 120°, 21.92" pen, EXP-3319-331 Titan) w/ 4 spf for total of 112 shots. 138 BWTR. SIFN.

2/6/2008 Day: 2**Completion**

Rigless on 2/5/2008 - RU BJ Services "Ram Head" frac flange. RU BJ & frac A1 sds, stage #1 down casing w/ #'s of 20/40 sand in bbls of Lightning 17 frac fluid. Open well & took 19 bbls to load casing. Perfs broke down @ 2501 back to 580 psi. Pump 30 gals of Techna Hib chemical. Treated @ ave pressure of 1318 @ ave rate of 23.6 bpm w/ 8 ppg of sand. Spot 12 bbls of 15% HCL acid in flush for next stage. ISIP was 1809. 1328 bbls EWTR. Leave pressure on well. RU Perforators LLC WLT, crane & lubricator. RIH w/ Weatherford 5-1/2" (6K) composite flow through frac plug & 8' perf gun.. Set plug @ 4730'. Perforate C sds @ 4621-29' w/ 3-1/8" Slick Guns (19 gram, .49" HE, 120°) w/ 4 spf for total of 32 shots. SIFN.

2/7/2008 Day: 3**Completion**

Rigless on 2/6/2008 - Thaw well out. Open well w/ 50 psi on casing. RU BJ & perfs won't break down. RIH & spot 10 gals of 15% HCL acid on perfs. RU BJ & frac stage #2 down casing w/ 14,890#'s of 20/40 sand in 264 bbls of Lightning 17 frac fluid. Open well w/ 160 psi on casing. Perfs broke down @ 3273 psi. Pump 30 gals of Techna Hib chemical. Treated @ ave pressure of 1847 @ ave rate of 23.5 bpm w/ 6.5 ppg of sand. Spot 12 bbls of 15% HCL acid in flush for next stage. ISIP was 1806. 1592 bbls EWTR. Leave pressure on well. RU WLT. RIH w/ frac plug & 7' perf gun. Set plug @ 4550'. Perforate D1 sds @ 4493-4500' w/ 4 spf for total of 27 shots. RU BJ & frac stage #3 w/ 9119#'s of 20/40 sand in 237 bbls of Lightning 17 frac fluid. Open well w/ 1360 psi on casing. Perfs broke down @ 3062 psi. Pump 30 gals of Techna Hib chemical. Treated @ ave pressure of 2210 @ ave rate of 23.5 bpm w/ 6.5 ppg of sand. ISIP was 2088. 1929 bbls EWTR. RD BJ & WLT. Flow well back. Well flowed for 1.5 hours & died w/ 100 bbls rec'd. SIFN.

2/8/2008 Day: 4**Completion**

Western #4 on 2/7/2008 - MIRU Western #2. Thaw wellhead & BOP W/ HO trk. Bleed pressure off well. Rec est 15 BTF. ND Cameron BOP & 5M frac head. Install 3M production tbg head & NU Weatherford Schaeffer BOP. Talley, drift, PU & TIH W/ used Weatherford 4 3/4" "Chomp" bit, bit sub & used/inspected YB 2 7/8 8rd 6.5# J-55 tbg. Tag fill @ 4423'. Tbg displaced 10 BW on TIH. RU power swivel. C/O sd & drill out composite bridge plugs as follows (using conventional circulation): sd @ 4423'. plug @ 4550' in 31 minutes; sd @ 4658', plug @ 4730' in 15 minutes. Hang back swivel & con't PU tbg. Tag fill @ 5567'. PU swivel. Drill plug remains & sd to 5757' (lack 30' f/ FC depth of 5787'). Circ hole clean. Lost est 80 BW during cleanout. RD swivel & pull EOT to 5664'. RU swab equipment. IFL @ sfc. Made 4 swb runs rec 40 BW. FFL @ 700'. SIFN W/ est 1844 BWTR.

2/9/2008 Day: 5**Completion**

Western #4 on 2/8/2008 - Thaw wellhead, BOP & tbg stump W/ HO trk. Bleed gas off annulus. Con't swabbing well for cleanup. IFL @ 900'. Made 10 add'l swb runs rec 80 BTF W/ light gas, tr oil & no sd. FFL @ 2000'. TIH W/ tbg. Tag @ 5757' (no new fill). Circ hole W/ clean wtr. Lost est 45 BW & rec tr oil. LD excess tbg. TOH W/ tbg--LD bit. TIH W/ BHA & production tbg as follows: 2 7/8 NC, 2 jts tbg, SN, 2 jts tbg, new CDI 5 1/2" TA (45K) & 154 jts 2 7/8 8rd 6.5# YB tbg. ND BOP. Set TA @ 4900' W/ SN @ 4966' & EOT @ 5031'. Land tbg W/ 16,000# tension. NU wellhead. Flush tbg

W/ 60 BW (returned same amt). PU & TIH W/ pump and "B" grade rod string to 2450'. PU polished rod & SIFN. Est 1809 BWTR.

2/12/2008 Day: 6

Completion

Western #4 on 2/11/2008 - Thaw wellhead W/ HO trk. LD polished rod. Con't PU & TIH W/ pump and "B" grade rod string f/ 2450' (complete as follows): new CDI 2 1/2" X 1 1/2" X 18' RHAC pump, 6-1 1/2" weight rods, 20-3/4" scraped rods, 72-3/4" plain rods, 100-3/4" scraped rods, 1-8', 1-6', 1-4' & 1-2' X 3/4" pony rods (A grade) and 1 1/2" X 26' polished rod (A grade). Seat pump and RU pumping unit. W/ tbg full, pressure test tbg & pump to 200 psi. Stroke pump up W/ unit to 800 psi. Good pump action. RDMOSU. Est 1809 BWTR. Place well on production @ 1:00 PM 2/11/2008 W/ 102" SL @ 5 SPM. FINAL REPORT!!

Pertinent Files: [Go to File List](#)

ATTACHMENT H

WORK PROCEDURE FOR PLUGGING AND ABANDONMENT

1. Set CIBP @ 4443'
2. Plug #1 Set 100' plug on top of CIBP using 12 sx Class "G" cement
3. Plug #2 156' balance plug using 22 sx Class "G" cement 50' above Trona-Bird's Nest extending 50' below base of Mahogany Oil Shale
4. Plug #3 120' balance plug using 14sx Class "G" cement 60' above Uinta/Green River and extending 60' below
5. Plug #4 Pump 40 sx Class "G" cement down 5 ½" casing to 380'

The approximate cost to plug and abandon this well is \$42,000.

FEDERAL 2-23-9-16

Spud Date: 12/06/07
Put on Production: 02/11/08

GL: 5678' KB: 5690'

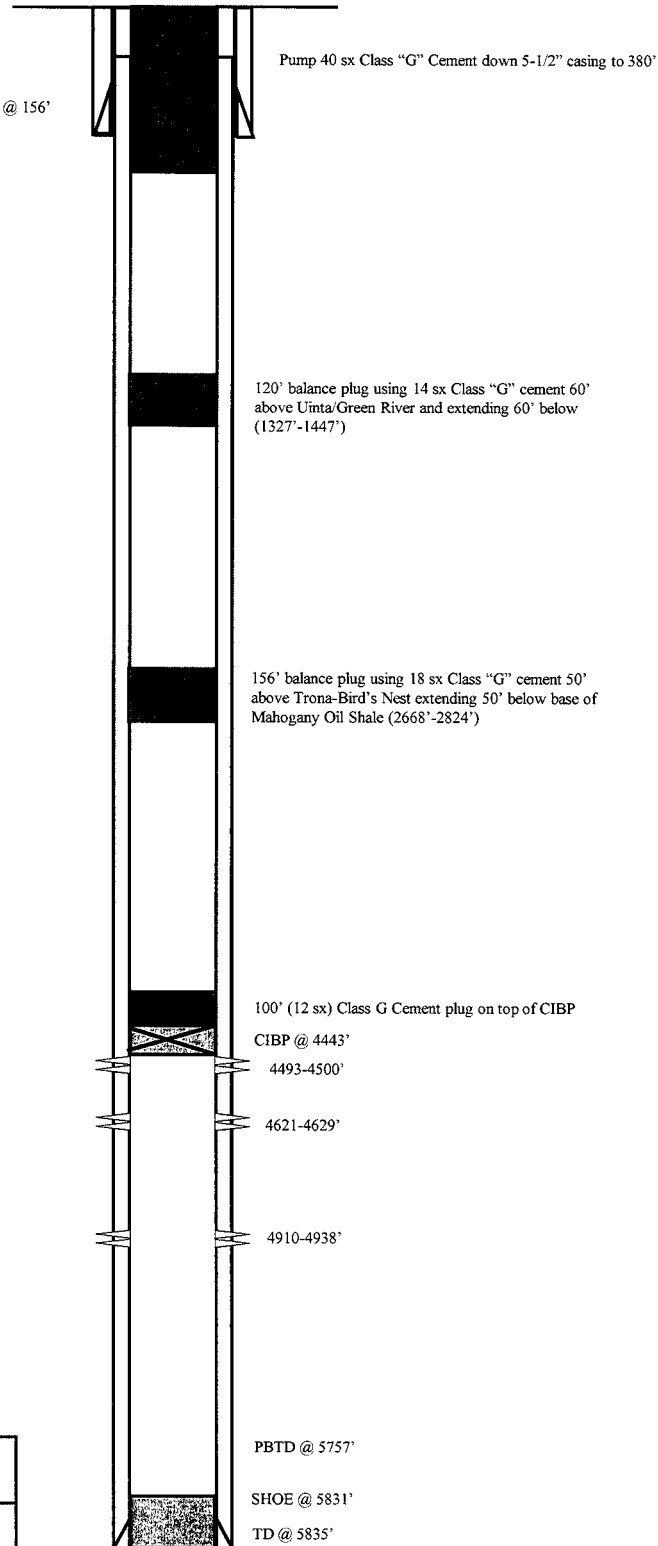
SURFACE CASING

CSG SIZE: 8-5/8"
GRADE: J-55
WEIGHT: 24#
LENGTH: 7 jts. (312.96')
DEPTH LANDED: 324.81' KB
HOLE SIZE: 12-1/4"
CEMENT DATA: 1- 160, sxs Class "G" cmt, est 4 bbls cmt to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"
GRADE: J-55
WEIGHT: 15.5#
LENGTH: 135 jts. (5818.10')
DEPTH LANDED: 5831.23' KB
HOLE SIZE: 7-7/8"
CEMENT DATA: 300 sxs Prem. Lite II mixed & 400 sxs 50/50 poz.
CEMENT TOP: 156'

Proposed P & A Wellbore Diagram



NEWFIELD

FEDERAL 2-23-9-16

760' FNL & 2032' FEL

NW/NE Section 23-T9S-R16E

Duchesne Co, Utah

API #43-013-33003; Lease # UTU-15855

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-15855			
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 7. UNIT or CA AGREEMENT NAME: GMBU (GRRV)			
1. TYPE OF WELL Oil Well		8. WELL NAME and NUMBER: FEDERAL 2-23-9-16			
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY		9. API NUMBER: 43013330030000			
3. ADDRESS OF OPERATOR: Rt 3 Box 3630, Myton, UT, 84052		9. FIELD and POOL or WILDCAT: MONUMENT BUTTE			
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0760 FNL 2032 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNE Section: 23 Township: 09.0S Range: 16.0E Meridian: S		COUNTY: DUCHESNE STATE: UTAH			
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA					
TYPE OF SUBMISSION	TYPE OF ACTION				
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 2/19/2014 <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input checked="" type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input checked="" type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: </td> </tr> </table>		<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input checked="" type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input checked="" type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER:
<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input checked="" type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input checked="" type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER:			
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. The subject well has been converted from a producing oil well to an injection well on 02/13/2014. On 02/18/2014 Chris Jensen with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. On 02/19/2014 the casing was pressured up to 1160 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 175 psig during the test. There was not a State representative available to witness the test.					
NAME (PLEASE PRINT) Lucy Chavez-Naupoto		PHONE NUMBER 435 646-4874			
SIGNATURE N/A		TITLE Water Services Technician DATE 2/25/2014			

Sundry Number: 48127 API Well Number: 43013330030000

Mechanical Integrity Test Casing or Annulus Pressure Test

Newfield Production Company
Rt. 3 Box 3630
Myton, UT 84052
435-646-3721

Witness: _____ Date: 2/19/14 Time: 10:00 am pm

Test Conducted by: Everett Unruh

Others Present: _____

Well:	Federal 2-23-9-16	Field:	Monument Butte
Well Location:	NWNE Sec 23 T9S R16E Duchesne County, UT	API No:	43-013-33003

Time	Casing Pressure
0 min	<u>1160</u> psig
5	<u>1160</u> psig
10	<u>1160</u> psig
15	<u>1160</u> psig
20	<u>1160</u> psig
25	<u>1160</u> psig
30 min	<u>1160</u> psig
35	_____ psig
40	_____ psig
45	_____ psig
50	_____ psig
55	_____ psig
60 min	_____ psig

Tubing Pressure: 175 psig

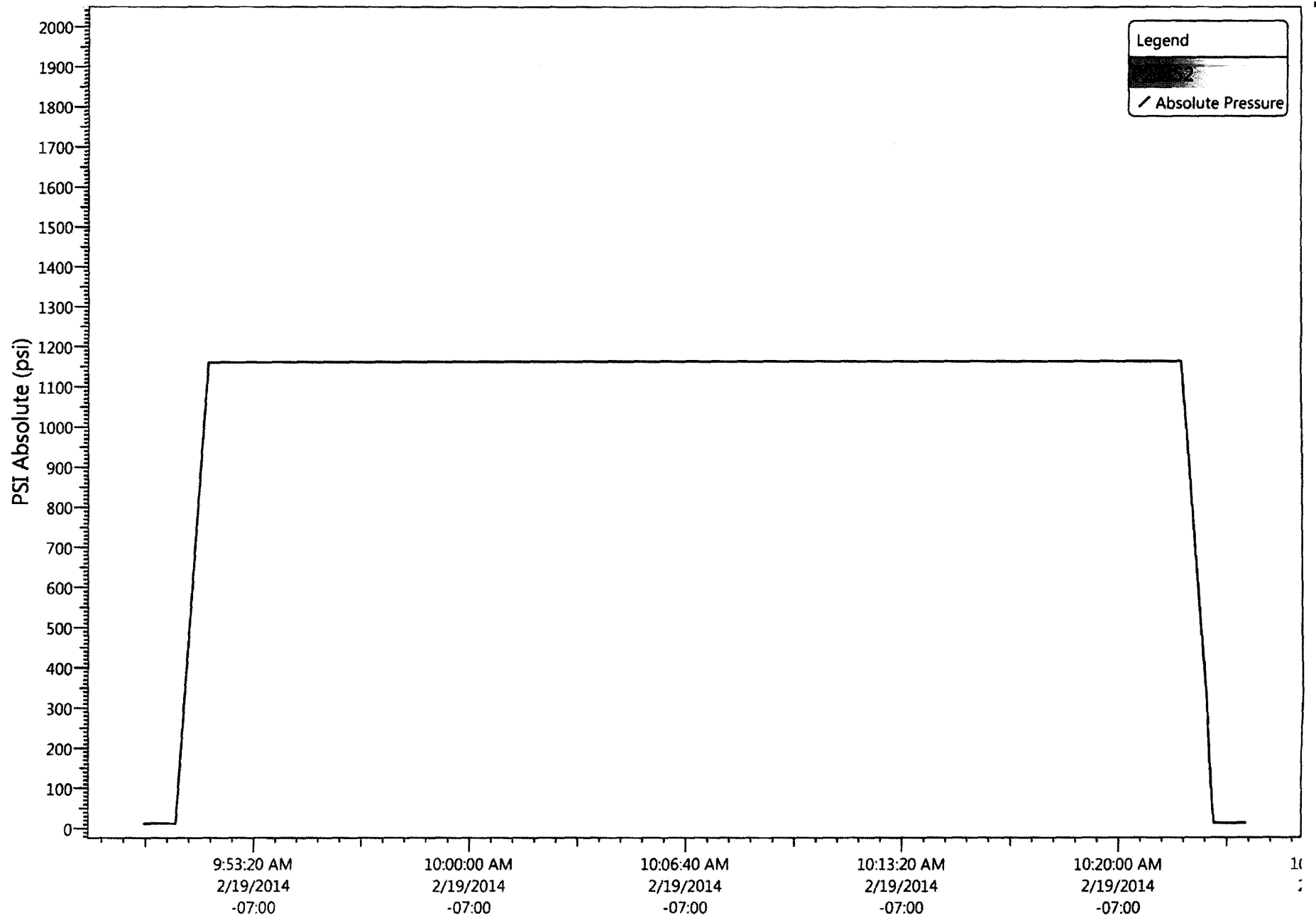
Result: Pass Fail

Signature of Witness: _____

Signature of Person Conducting Test: Everett Unruh

Federal 2-23-9-16

2/19/2014 9:49:05 AM



Sundry Number: 48127 API Well Number: 43013330030000

Daily Activity Report**Format For Sundrv****FEDERAL 2-23-9-16****12/1/2013 To 4/28/2014****2/13/2014 Day: 1****Conversion**

Monument #707 on 2/13/2014 - SPOT IN EQUIPMENT, LEVEL UP RIG, RIG UP, REMOVE HORSE HEAD, LD POLISH ROD. TOO H W/ 2-7/8 TBG BREAK, REDOPE & MAKE UP COLLARS - 6:00 AM CREW TRAVEL 7:00 AM SPOT IN EQUIPMENT, LEVEL UP RIG, RIG UP, REMOVE HORSE HEAD, LD POLISH ROD, FLUSH W/50 BBLS @ 250 DEGREES DOWN CSG. P/U 1-3/4 ROD WORK STUCK PUMP, FLUSH 60 BBLS @ 250 DEGREES DOWN CSG, WORK STUCK PUMP, POPPED FREE L/D 1-3/4 ROD, 4', 6', 8' PONY & 2-3/4 RODS, FLUSH TBG W/30 BBLS @ 250 DEGREES. P/U 2-3/4 RODS, 4', 6', 8'-3/4 PONU SUBS, 1-3/4 ROD, SOFT SEAT, FILL TBG W/25 BBLS & PRESSURE TEST TO 3250 PSI, BLED DOWN, L/D 1-3/4 ROD, 4', 6', 8' PONY, L/D RODS ONTO TRAILER - 100-3/4 4PER, 32-3/4 SLICK, FLUSH 15 BBLS L/D 23-3/4 SLICKS GOOD, 17-3/4 BAD (72-3/4 SLICK TOTAL) 20-3/4 4PER BAD, 6-1/2 SINGLES GOOD, 1-2-1/2 X 1-1/2 X 16 X 20 PUMP, RUN SANDLINE TAG TAGGED 5754, 3' FILL, BLEED DOWN CSG 300 PSI N/D WELLHEAD, UNSET ANCHOR, N/U BOP, R/U FLOOR TOO H W/ 2-7/8 TBG BREAK, REDOPE & MAKE UP COLLARS 40 JTS 2-7/8 IN DERRICK (TALLEY 1268') SIW SDFD 6:00 PM CREW TRAVEL - 6:00 AM CREW TRAVEL 7:00 AM SPOT IN EQUIPMENT, LEVEL UP RIG, RIG UP, REMOVE HORSE HEAD, LD POLISH ROD, FLUSH W/50 BBLS @ 250 DEGREES DOWN CSG. P/U 1-3/4 ROD WORK STUCK PUMP, FLUSH 60 BBLS @ 250 DEGREES DOWN CSG, WORK STUCK PUMP, POPPED FREE L/D 1-3/4 ROD, 4', 6', 8' PONY & 2-3/4 RODS, FLUSH TBG W/30 BBLS @ 250 DEGREES. P/U 2-3/4 RODS, 4', 6', 8'-3/4 PONU SUBS, 1-3/4 ROD, SOFT SEAT, FILL TBG W/25 BBLS & PRESSURE TEST TO 3250 PSI, BLED DOWN, L/D 1-3/4 ROD, 4', 6', 8' PONY, L/D RODS ONTO TRAILER - 100-3/4 4PER, 32-3/4 SLICK, FLUSH 15 BBLS L/D 23-3/4 SLICKS GOOD, 17-3/4 BAD (72-3/4 SLICK TOTAL) 20-3/4 4PER BAD, 6-1/2 SINGLES GOOD, 1-2-1/2 X 1-1/2 X 16 X 20 PUMP, RUN SANDLINE TAG TAGGED 5754, 3' FILL, BLEED DOWN CSG 300 PSI N/D WELLHEAD, UNSET ANCHOR, N/U BOP, R/U FLOOR TOO H W/ 2-7/8 TBG BREAK, REDOPE & MAKE UP COLLARS 40 JTS 2-7/8 IN DERRICK (TALLEY 1268') SIW SDFD 6:00 PM CREW TRAVEL **Finalized**

Daily Cost: \$0**Cumulative Cost:** \$7,692**2/14/2014 Day: 2****Conversion**

Monument #707 on 2/14/2014 - ORIENTATION. TOO H TBG FLUSH RUN IN W/ TBG PRESSURE TEST - 5:30 CREW TRAVEL TO NFX OFFICE. 6:00 WAIT FOR ORIENTATION (STARTED AT 7 NOT 6) 7:00 CREW IN ORIENTATION. 8:00 CREW TRAVEL TO LOC 8:30 TOO H W/ 2-7/8 TBG T/DERRICK, 98 JTS (138 TOTAL), LD 20 - 2-7/8 TBG ONTO TREAILER, MU PKR & SN, 1 - 2-7/8 JT, RUN IN HOLE FROM DERRICK 138 JTS, FLUSH TBG W/ 190 BBLS @ 250 DEGREES, DROP SV & FILL TBG W/ 155 BBLS PRESSURE TEST T/3000 PSI & HELD FOR 30 MINUTES. FISH SV, FLUSH CSG W 40 BBLS @ 250 DEGREES, ND BOPS, SET PACKER W/12K, NU WH, FILL W/30 BBLS PRESSURE UP TO 1500 K WH LEAKING, TIGHTEN WH 2 TURNS, PRESSURE UP TO 1500 K GOOD TEST. SIW SDFD 7:00 - 8:00 PM CREW TRAVEL - 5:30 CREW TRAVEL TO NFX OFFICE. 6:00 WAIT FOR ORIENTATION (STARTED AT 7 NOT 6) 7:00 CREW IN ORIENTATION. 8:00 CREW TRAVEL TO LOC 8:30 TOO H W/ 2-7/8 TBG T/DERRICK, 98 JTS (138 TOTAL), LD 20 - 2-7/8 TBG ONTO TREAILER, MU PKR & SN, 1 - 2-7/8 JT, RUN IN HOLE FROM DERRICK 138 JTS, FLUSH TBG W/ 190 BBLS @ 250 DEGREES, DROP SV & FILL TBG W/ 155 BBLS PRESSURE TEST T/3000 PSI & HELD FOR 30 MINUTES. FISH SV, FLUSH CSG W 40 BBLS @ 250 DEGREES, ND BOPS, SET PACKER W/12K, NU WH, FILL W/30 BBLS PRESSURE UP TO 1500 K WH LEAKING, TIGHTEN WH 2 TURNS, PRESSURE UP TO 1500 K GOOD TEST. SIW SDFD 7:00 - 8:00 PM CREW TRAVEL

Daily Cost: \$0**Cumulative Cost:** \$15,812**2/20/2014 Day: 3****Conversion**

Rigless on 2/20/2014 - Conduct initial MIT - On 02/18/2014 Chris Jensen with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. On 02/19/2014 the casing was pressured up to 1160 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 175 psig during the test. There was not a State representative available to witness the test. - On 02/18/2014 Chris Jensen with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. On 02/19/2014 the casing was pressured up to 1160 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 175 psig during the test. There was not a State representative available to witness the test. **Finalized**

Daily Cost: \$0**Cumulative Cost:** \$48,024**Pertinent Files: Go to File List**

Spud Date: 12/06/07
Put on Production: 02/11/08
GL: 5678' KB: 5690'

FEDERAL 2-23-9-16

Injection Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"
GRADE: J-55
WEIGHT: 24#
LENGTH: 7 jts (312.95')
DEPTH LANDED: 324.81' KB
HOLE SIZE: 12-1/4"
CEMENT DATA: 1- 160, sxs Class "G" cmt, est 4 bbls cmt to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"
GRADE: J-55
WEIGHT: 15.5#
LENGTH: 135 jts (5818.10')
DEPTH LANDED: 5831.23' KB
HOLE SIZE: 7-7/8"
CEMENT DATA: 300 sxs Prem Lite II mixed & 400 sxs 50/50 poz.
CEMENT TOP: 156'

TUBING

SIZE/GRADE/WT: 2-7/8" / J-55 / 6.5#
NO. OF JOINTS: 139 jts (4426.9')
SEATING NIPPLE: 2-7/8" (1.10')
SN LANDED AT: 4438.9' KB
ON/OFF TOOL AT: 4440.1'
ARROW #1 PACKER CE AT: 4445.2'
XO 2-3/8 x 2-7/8 J-55 AT: 4448.8'
TBG PUP 2-3/8 J-55 AT: 4449.4'
X/N NIPPLE AT: 4453.5'
TOTAL STRING LENGTH: EOT @ 4454.74'

FRAC JOB

02/05/08 4910-4938' **Frac A1 sands as follows:**
170350# 20/40 sand in 1190 bbl Lightning 17
frac fluid. Treated @ avg press of 1318 psi
w/avg rate of 23.6 BPM. ISIP 1809 psi.

02/06/08 4621-4629' **Frac C sands as follows:**
14890# 20/40 sand in 264 bbl Lightning 17
frac fluid. Treated @ avg press of 1847 psi
w/avg rate of 23.5 BPM. ISIP 1806 psi.

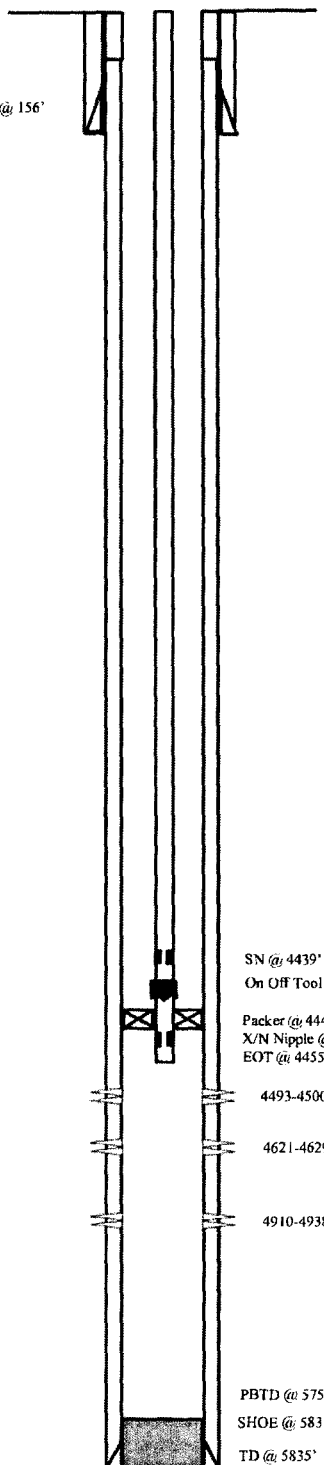
02/06/08 4493-4500' **Frac D1 sands as follows:**
9119# 20/40 sand in 237 bbls Lightning 17
frac fluid. Treated @ avg press of 2210 psi
w/avg rate of 23.5 BPM. ISIP 2088 psi.

8-1-08 **Pump change** Updated rod & tubing details.

12/21/09 **Pump change.** Updated rod and tubing detail

02/13/14 **Convert to Injection Well**

02/19/14 **Conversion MIT Finalized** - update tbg detail



PERFORATION RECORD

4910-4938' 4 JSPF 112 holes
4621-4629' 4 JSPF 32 holes
4493-4500' 4 JSPF 28 holes

NEWFIELD

FEDERAL 2-23-9-16
760' FNL & 2032' FEI.
NW/NE Section 23-T9S-R16E
Duchesne Co, Utah
API #43-013-33003; Lease # UTU-15855